

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

**AMENDMENT NUMBER TWO (2)
FLORIDA DEPARTMENT OF TRANSPORTATION
LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT**

THIS AMENDMENT Number TWO (2) to the Agreement dated **June 16, 2005**, made and entered into this _____ day of _____ 20____, by and between the Department of Transportation, hereinafter called the DEPARTMENT and the **CITY OF FORT LAUDERDALE**, a municipal subdivision of the State of Florida, hereinafter called the AGENCY.

WITNESSETH:

WHEREAS, the DEPARTMENT has jurisdiction over **State Road 811 (NE 4th Avenue)** as part of the State Highway System as described in **Exhibit "A"**; and

WHEREAS, the DEPARTMENT and the AGENCY signed an agreement on June 16, 2005 for the DEPARTMENT to install landscaping and irrigation in the median along State Road 811 **from M.P. 0.009 to M.P. 0.975**, herein after referred to as "the Original Agreement"; and

WHEREAS, the parties amended the Agreement with Amendment One (1), dated December 1, 2021, for the purpose of expanding the AGENCY'S maintenance of the landscape improvements on State Road 811 (Dixie Highway / NE 4th Avenue) from **M.P. 0.057 to M.P. 0.124**; and

WHEREAS, pursuant to this Amendment, the AGENCY seeks to have installed by permit, and herein agrees to maintain, certain landscape improvements within the right of way of State Road 811 (Dixie Highway / NE 4th Avenue) from **M.P. 0.000 to M.P. 0.406**, as described within **Exhibit "B"** and

WHEREAS, it is the intent of the AGENCY and the DEPARTMENT that the AGENCY shall maintain all right of way within the medians, outside the travelway and the additional improvements made to the travelway that were made at the AGENCY'S request, in accordance with the Maintenance Plan incorporated herein as **Exhibit "C"**; and

WHEREAS, the parties hereto mutually recognize the need for entering into this Amendment designating and setting forth the responsibilities of each party; and

WHEREAS, the AGENCY, by Resolution No. _____, dated _____, 20____, attached hereto as **Exhibit "D"** and by this reference made a part hereof, desires to enter into this Agreement and authorizes its officers to do so.

NOW THEREFORE, for and in consideration of the mutual benefits to flow each to the other, the parties covenant and agree as follows:

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

1. The recitals set forth above are true and correct and are deemed incorporated herein.
2. INSTALLATION OF FACILITIES

The AGENCY shall install and agrees to maintain the landscape improvements described herein as: plant materials, irrigation and/or hardscape on the highway facilities substantially as specified in plans and specifications hereinafter referred to as the Project(s) and incorporated herein as **Exhibit "B"**. *Hardscape* shall mean, but not be limited to, any site amenities such as landscape accent lighting, bike racks, fountains, tree grates, decorative free-standing walls, and/or sidewalk, median and/or roadway specialty surfacing such as concrete pavers, stamped colored concrete and/or stamped colored asphalt (also known as patterned pavement).

- a. All plant materials shall be installed and maintained in strict accordance with sound nursery practice prescribed by the International Society of Arboriculture (ISA). All plant materials installed shall be Florida #1 or better according to the most current edition of Florida Department of Agriculture, *Florida Grades and Standards for Nursery Stock*; and all trees shall meet Florida Power & Light, *Right Tree, Right Place, South Florida*.
- b. Trees and palms within the right of way shall be installed and pruned to prevent encroachment to roadways, lateral offsets, and sidewalks. Definition of these criteria is included in the most current editions of FDOT standards for design, construction, maintenance, and utility operations on the state highway system and **Exhibit "C"**, the Maintenance Plan.
- c. Tree and palm pruning shall be supervised by properly trained personnel trained in tree pruning techniques and shall meet the most current standards set forth by the International Society of Arboriculture (ISA) and the American National Standard Institute (ANSI), Part A-300.
- d. Irrigation installation and maintenance activities shall conform to the standards set forth by the Florida Irrigation Society (FIS) latest edition of FIS, *Standards and Specifications for Turf and Landscape Irrigation Systems*.
- e. The AGENCY shall provide the FDOT Local Operation Center accurate as-built plans of the irrigation system so if in the future there is a need for the DEPARTMENT to perform work in the area, the system can be accommodated as much as possible. (See paragraph (g) for contact information.)
- f. If it becomes necessary to provide utilities (water/electricity) to the median or side areas, it shall be the AGENCY'S responsibility to obtain a permit for such work through the local Operations Center (see paragraph (g) below) and the AGENCY shall be responsible for all associated fees for the installation and maintenance of these utilities.
- g. The AGENCY shall provide the local FDOT Operation Center located at Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300) a twenty-four (24) hour telephone number and the name of a responsible person that the DEPARTMENT may contact. The AGENCY shall notify the local maintenance office forty-eight (48) hours prior to the start of the landscape improvements.

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

- h. All specialty surfacing shall be installed and maintained in strict accordance with the most current edition of the *Florida Accessibility Code for Building Construction* and the *Interlocking Concrete Pavement Institute (ICPI)*.
- i. All activities, including landscape improvements installation and future maintenance operations performed on State highway right of way, must be in conformity with the most current edition of the *Manual on Uniform Traffic Control (MUTCD)* and *FDOT Standard Plans for Road Construction, 102-XXX series, Maintenance of Traffic*.
- j. The most current edition of *FDOT Design Manual, Section 212.11 and Exhibits 212.4 through 212.7 regarding clear sight triangles at intersections* must be adhered to.
- k. Clear Zone Lateral Offset and as specified in the *FDOT Design Manual, Chapter 215* must be adhered to.
- l. Landscape improvements shall not obstruct roadside signs or permitted outdoor advertising signs, (see Florida Administrative Code [F.A.C.] Rule Chapter 14-10.)
- m. If there is a need to restrict the normal flow of traffic, it shall be done on non-holiday, weekday, off-peak hours (9 AM to 3 PM), and the party performing such work shall give notice to the local law enforcement agency within whose jurisdiction such road is located prior to commencing work on the landscape improvements. The DEPARTMENT'S Public Information Officer (see telephone number in paragraph (g) for Operation Center) shall also be notified.
- n. The AGENCY shall be responsible for ensuring no impacts to utilities will occur within the landscape improvement limits before construction commences.
- o. The AGENCY shall follow the minimum level of maintenance guidelines as set forth in FDOT'S Rule Chapter 14-40 *Highway Beautification and Landscape Management*, in the *FDOT Guide to Roadside Mowing and Maintenance Management System*, and **Exhibit "C"**, the *Maintenance Plan* for maintenance activities for landscape improvements.

3. MAINTENANCE OF FACILITIES

A. The AGENCY agrees to maintain the landscape improvements, as existing and those to be installed, within the physical limits described in **Exhibit "A"** and as further described in **Exhibit "B"**. The non-standard improvements within and outside the traveled way shall be maintained by the AGENCY regardless if the said improvement was made by the DEPARTMENT, the AGENCY, or others authorized pursuant to Section 7, by periodic mowing, pruning, fertilizing, weeding, curb and sidewalk edging, litter pickup, necessary replanting, irrigation system repair and/ or repair of any median concrete replacement associated with specialty surfacing (if applicable) following the DEPARTMENT'S landscape safety and maintenance guidelines, **Exhibit "C"**, the Maintenance Plan. The AGENCY'S responsibility for maintenance shall include all landscaped, turfed and hardscape areas on the sidewalk or within the medians and areas outside the traveled way to the right of way and/or areas within the traveled way containing specialty surfacing. The AGENCY shall be responsible for all maintenance and repairs to FDOT sidewalks directly attributable to tree roots or other AGENCY maintained improvements. It shall be the

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

responsibility of the AGENCY to restore an unacceptable ride condition of the roadway caused by the differential characteristics of non-standard traveled way surfacing (if applicable) on DEPARTMENT right of way within the limits of this Agreement.

- B. Such maintenance to be provided by the AGENCY is specifically set out as follows: to maintain, which means to properly water and fertilize all plant materials; to keep them as free as practicable from disease and harmful insects; to properly mulch the planting beds; to keep the premises free of weeds; to mow the turf to the proper height; to properly prune all plants which at a minimum includes: (1) removing dead or diseased parts of plants, (2) pruning such parts thereof to provide clear visibility to signage, permitted outdoor advertising signs per Florida Statute 479.106 and for those using the roadway and/or sidewalk; (3) preventing any other potential roadway hazards. *Plant materials* shall be those items which would be scientifically classified as plants and including trees, palms, shrubs, groundcover and turf. To maintain also means to remove or replace dead or diseased plant materials in their entirety, or to remove or replace those that fall below original project standards. Palms shall be kept fruit free year-round. To maintain also means to keep the header curbs that contain the specialty surfacing treatment in optimum condition. To maintain also means to keep the nonstandard hardscape areas clean, free from weeds and to repair said hardscape as is necessary to prevent a safety hazard. To maintain also means to keep litter removed from the median and areas outside the travel way to the right of way line. All plants removed for whatever reason shall be replaced by plants of the same species type, size, and grade as specified in the original plans and specifications. Any changes to the original plans shall be submitted by permit application to the DEPARTMENT for review and approval.
- C. If it becomes necessary to provide utilities (water/electricity) to the medians or areas outside the traveled way to maintain these improvements, all costs associated with such utilities, are the maintaining AGENCY'S responsibility.

The AGENCY shall be directly responsible for:

- a. Impact and connection fees;
 - b. The on-going cost of utility usage for water and electricity.
- D. The maintenance functions to be performed by the AGENCY may be subject to periodic inspections by the DEPARTMENT at the discretion of the DEPARTMENT. Such inspection findings will be shared with the AGENCY and shall be the basis of all decisions regarding repayment, reworking or agreement termination. The AGENCY shall not change or deviate from said plans without written approval of the DEPARTMENT.

4. DEPARTMENT ACCESS TO FACILITIES

The DEPARTMENT will periodically need access to various features within the limits of this Agreement. Upon request of the DEPARTMENT, the AGENCY will have 14 calendar days to provide access to the items noted by the DEPARTMENT. This may require temporary or permanent removal of improvements such as hardscape, landscape or other items conflicting with the items to which the Department needs access.

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

Should the AGENCY fail to remove or relocate items as requested, the Department may:

- a. Remove conflicting improvements or any portion thereof.
- b. Restore the area with any material meeting Department standards.
- c. Restore the improvements at the request and funding of the AGENCY.

5. NOTICE OF MAINTENANCE DEFICIENCIES

If at any time after the AGENCY has undertaken the landscape improvements installation and/or maintenance responsibility for the landscape improvements it shall come to the attention of the DEPARTMENT'S District Secretary that the limits, or a part thereof, are not properly maintained pursuant to the terms of this Agreement, said District Secretary, may at his/her option, issue a written notice that a deficiency or deficiencies exist(s), by sending a certified letter to the AGENCY, to place said AGENCY on notice thereof. Thereafter, the AGENCY shall have a period of thirty (30) calendar days in which to correct the cited deficiencies. If said deficiencies are not corrected within this time-period, the DEPARTMENT may, at its option, proceed as follows:

- a. Maintain the landscape improvements or any part thereof, with the DEPARTMENT or Contractor's personnel and invoice the AGENCY for expenses incurred; and/or
- b. At the discretion of the DEPARTMENT, terminate the Agreement in accordance with Paragraph 9 of this Agreement and remove, by the DEPARTMENT or Contractor's personnel, all of the landscape improvements installed under this Agreement or any preceding Agreements, except as to trees and palms, and charge the AGENCY the reasonable cost of such removal.

6. FUTURE DEPARTMENT IMPROVEMENTS

It is understood between the parties hereto that the landscape improvements covered by this Agreement may be removed, relocated, or adjusted at any time in the future, as determined to be necessary by the DEPARTMENT, in order that the adjacent state road be widened, altered, or otherwise changed to meet future criteria or planning needs of the DEPARTMENT.

The AGENCY shall be given sixty (60) calendar days' notice to remove said landscape improvements at the AGENCY'S expense after which time the DEPARTMENT may remove same. All permits (including tree permits), fees, and any mitigation associated with the removal, relocation or adjustments of these improvements are the AGENCY'S responsibility.

7. FUTURE AGENCY IMPROVEMENTS

The AGENCY may construct additional landscape improvements within the limits of this Agreement, identified in **Exhibit "A"**, subject to the following conditions:

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

- a. Plans for any new landscape improvements shall be subject to approval by the DEPARTMENT. The AGENCY shall not change or deviate from said plans without written approval by the DEPARTMENT.

All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.

The AGENCY agrees to comply with the requirements of this Agreement with regard to any additional landscape improvements it chooses to have installed and there will be no cost to the DEPARTMENT.

8. ADJACENT PROPERTY OWNER IMPROVEMENTS

The DEPARTMENT may allow an adjacent property owner to construct additional landscape improvements within the limits of the right of way identified in **Exhibit "A"** that the AGENCY shall be responsible for maintaining under this Agreement, subject to the following conditions:

Plans for any new landscape improvements shall be subject to approval by the DEPARTMENT and shall require a valid permit attached with a letter of consent to said plans by the AGENCY. The plans shall not be changed or deviated from without written approval by the DEPARTMENT and the AGENCY.

All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.

The AGENCY agrees to comply with the requirements of this Agreement with regard to any additional landscape improvements installed by an adjacent owner.

9. AGREEMENT TERMINATION

In addition to those conditions otherwise contained herein, this Agreement may be terminated under any one (1) of the following conditions:

- a. By the DEPARTMENT, if the AGENCY fails to perform its duties under this Agreement, following ten (10) days written notice.
- b. By the DEPARTMENT, for refusal by the AGENCY to allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the AGENCY in conjunction with this Agreement.

10. AGREEMENT TERM

The term of this Agreement commences upon execution by all parties and shall remain in effect as long as the improvements shall exist, or until this Agreement is terminated by either party in accordance with Paragraph 9.

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

11. LIABILITY AND INSURANCE REQUIREMENTS

A. With respect to any of the AGENCY'S agents, consultants, sub-consultants, contractors and/or sub-contractors, such party in any contract for the landscape improvements shall agree to indemnify, defend, save and hold harmless the DEPARTMENT from all claims, demands, liabilities, and suits of any nature arising out of, because of or due to any intentional and/or negligent act or occurrence, omission or commission of such agents, consultants, subconsultants, contractors and/or subcontractors. The AGENCY shall provide the DEPARTMENT with written evidence of the foregoing upon the request of the DEPARTMENT. It is specifically understood and agreed that this indemnification clause does not cover or indemnify the DEPARTMENT for its own negligence.

B. In the event that AGENCY contracts with a third party to provide the services set forth herein, any contract with such third party shall include the following provisions:

1. The AGENCY'S contractor shall at all times during the term of this Agreement keep and maintain in full force and effect, at contractor's sole cost and expense, Comprehensive General Liability with minimum limits of \$1,000,000.00 per occurrence combined single limit for Bodily Injury Liability and Property Damage Liability and Worker's Compensation insurance with minimum limits of \$500,000.00 per Liability. Coverage must be afforded on a form no more restrictive than the latest edition of the Comprehensive General Liability and Worker's Compensation policy without restrictive endorsements, as filed by the Insurance Services Office. The AGENCY and DEPARTMENT shall be named as additional insured on such policies.
2. AGENCY'S contractor shall furnish AGENCY with Certificates of Insurance of Endorsements evidencing the insurance coverage specified herein prior to the beginning performance of work under this Agreement.
3. Coverage is not to cease and is to remain in full force and effect (subject to cancellation notice) until all performance required of AGENCY'S contractor is completed. All policies must be endorsed to provide the DEPARTMENT with at least thirty (30) day notice of cancellation and/or restriction. If any of the insurance coverage will expire prior to the completion of work, copies of renewal policies shall be furnished at least (30) days prior to the date of expiration.

12. E-VERIFY REQUIREMENTS

The AGENCY shall:

- a) Utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the AGENCY during the term of the contract; and
- b) Expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

13. SUPERSEDED AGREEMENTS

This writing embodies the entire Agreement and understanding between the parties hereto and there are no other Agreements and understanding, oral or written, with reference to the subject matter hereof that are not merged herein and superseded hereby.

14. FISCAL TERMS

The DEPARTMENT, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money will/may be paid on such contract. The DEPARTMENT shall require a statement from the Comptroller of the DEPARTMENT that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one (1) year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the DEPARTMENT which are for an amount in excess of TWENTY-FIVE THOUSAND DOLLARS (\$25,000.00) and which have a term for a period of more than one year.

15. DISPUTES

The DEPARTMENT'S District Secretary shall decide all questions, difficulties, and disputes of any nature whatsoever that may arise under or by reason of this Agreement, the prosecution or fulfillment of the service hereunder and the character, quality, amount, and value thereof; and his decision upon all claims, questions, and disputes shall be final and conclusive upon the parties hereto.

16. ASSIGNMENT

This Agreement may not be assigned or transferred by the AGENCY, in whole or in part, without the prior written consent of the DEPARTMENT.

17. LAWS GOVERNING

This Agreement shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the contract and Florida law, the laws of Florida shall prevail. The AGENCY agrees to waive forum and jurisdictional venue. The DEPARTMENT shall determine the forum and venue in which any dispute under this Agreement is decided.

18. NOTICES

Any and all notices given or required under this Agreement shall be in writing and either personally

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

delivered with receipt acknowledgement or sent by certified mail, return receipt requested. All notices shall be sent to the following addresses:

If to the DEPARTMENT:
Florida Dept. of Transportation
3400 West Commercial Blvd.
Ft. Lauderdale, FL 33309-3421
Attn: Kaylee Kildare
District IV Landscape Manager

If to the AGENCY:
City of Fort Lauderdale
290 NE 3rd Avenue
Fort Lauderdale, FL 33301
Attn: Mackendy Philippi
Title: City Project Manager

19. LIST OF EXHIBITS

- Exhibit A: Landscape Improvements Maintenance Boundaries
- Exhibit B: Landscape Improvement Plans
- Exhibit C: Maintenance Plan for Landscape Improvements
- Exhibit D: Patterned Pavements
- Exhibit E: Patterned Pavement Maintenance
- Exhibit F: Resolution

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

In Witness whereof, the parties hereto have executed with this Amendment effective the ___ day _____ year written and approved.

CITY OF FORT LAUDERDALE

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

By: _____
Dean J. Trantalis, Mayor

By: _____
John Krane, P.E.
Transportation Development Director

_____ day of _____, 2024

Date:

By: _____
Susan Grant, Acting City Manager
_____ day of _____ 2024

Attest: _____
Executive Secretary

Attest:

David R. Soloman, City Clerk

Legal Review:

Office of the General Counsel Date

Approved as to form by Office of the City Attorney

City Attorney

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

EXHIBIT A

LANDSCAPE IMPROVEMENTS MAINTENANCE BOUNDARIES

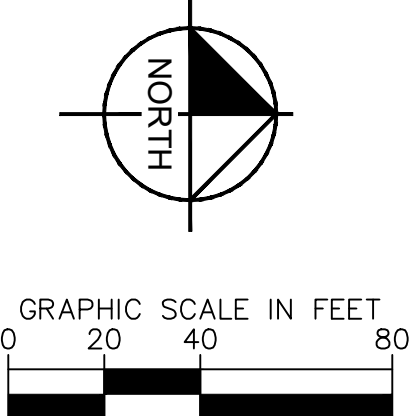
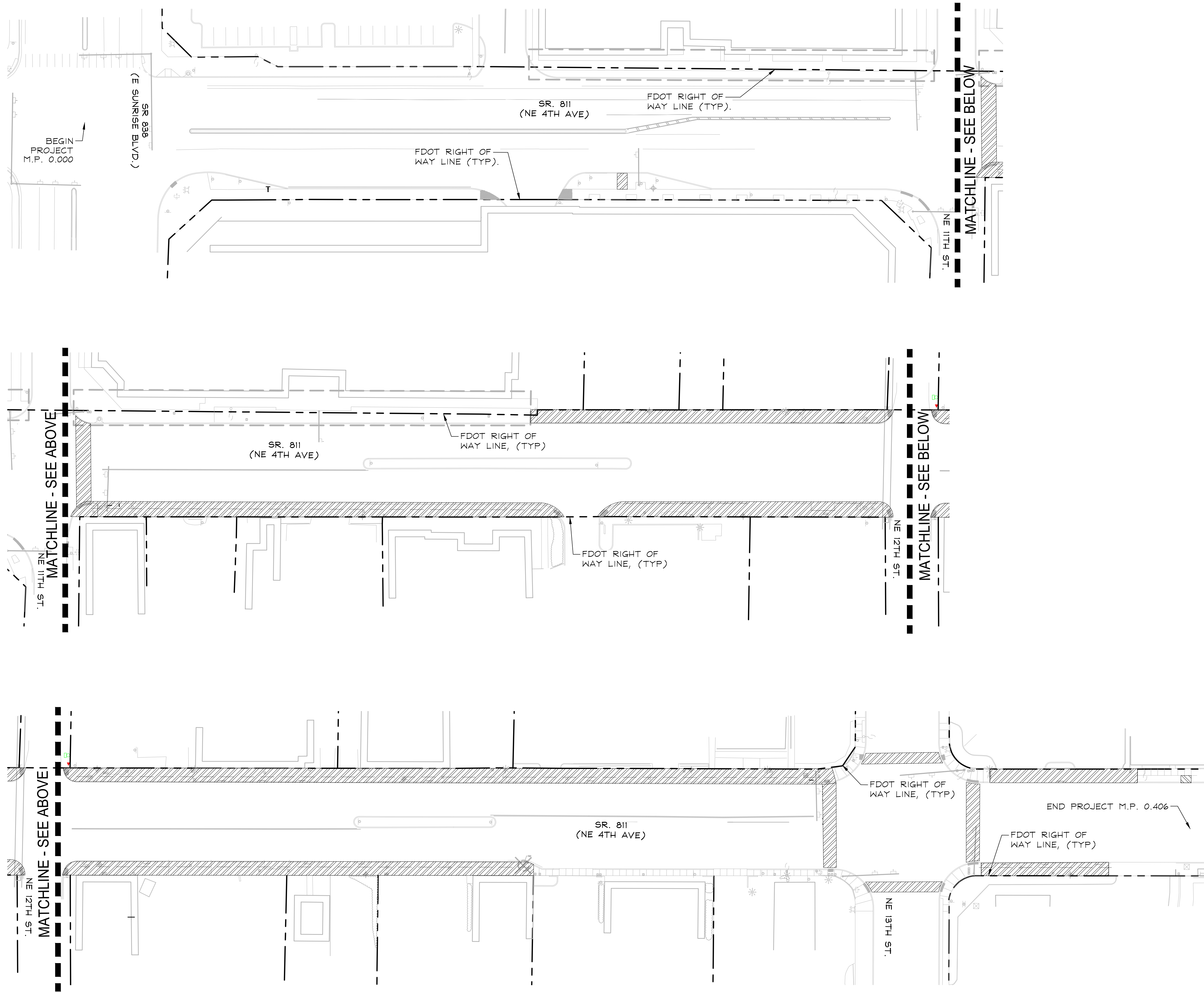
I. LIMITS OF MAINTENANCE FOR LANDSCAPE IMPROVEMENTS:

State Road 811 / Dixie Highway from East Sunrise Boulevard
(M.P. 0.000) to N.E. 13th Street (M.P. 0.406)

II. LANDSCAPE IMPROVEMENTS MAINTENANCE BOUNDARIES:

See attached map

Plotted By: Marion, John Sheet Set: NE 4th Avenue Layout: EX-1 MAINTENANCE EXHIBIT October 28, 2024 09:38:49am K:\WPB_URG\043184061 - NE 4th Ave FTL CAD\Drawings\FDOT MAINT MAP.dwg



LIMITS OF MAINTENANCE
City of Fort Lauderdale
2021-L-491-00009
Maintenance Boundary Map

Kimley Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY 696
 © 2024 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL:
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 10/28/2024

DATE:	04/18/2024
DESIGNED BY:	AS SHOWN
CHECKED BY:	
FIELD BOOK:	

CITY OF FORT LAUDERDALE
TRANSPORTATION & MOBILITY
 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
NE 4TH AVENUE STREETSCAPE PROJECT
E SUNRISE BLVD TO NE 13TH ST
FORT LAUDERDALE, FL
MAINTENANCE EXHIBIT

SHEET NO.
EX-1

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

The AGENCY agrees to install the landscape improvements in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by: Jonathan Haigh, PLA
Kimley Horn

Date: April 18, 2024

Sheet List Table	
Sheet Number	Sheet Title
C0.00	COVERSHEET
C0.01	SIGNATURE SHEET
C0.02	FDOT NOTES
C0.10	TYPICAL SECTIONS
L0.00	DEMOLITION PLAN
L0.01	DEMOLITION PLAN
L0.02	DEMOLITION PLAN
L0.03	DEMOLITION PLAN
L0.04	DEMOLITION PLAN
L0.05	DEMOLITION PLAN
L0.06	DEMOLITION PLAN
L0.07	DEMOLITION PLAN
L0.08	DEMOLITION PLAN
L1.00	TREE DISPOSITION PLAN
L1.01	TREE DISPOSITION PLAN
L1.02	TREE DISPOSITION PLAN
L1.03	TREE DISPOSITION PLAN
L1.04	TREE DISPOSITION PLAN
L1.05	TREE DISPOSITION PLAN
L1.06	TREE DISPOSITION PLAN
L1.07	TREE DISPOSITION PLAN
L1.08	TREE DISPOSITION PLAN
L2.00	HARDSCAPE PLAN
L2.01	HARDSCAPE PLAN
L2.02	HARDSCAPE PLAN
L2.03	HARDSCAPE PLAN
L2.04	HARDSCAPE PLAN
L2.05	HARDSCAPE PLAN
L2.06	HARDSCAPE PLAN
L2.07	HARDSCAPE PLAN
L2.08	HARDSCAPE PLAN
L2.09	POST MOUNT DISTRICT SIGN
L2.10	POST MOUNT DISTRICT SIGN
L2.11	FDOT POST MOUNT DETAIL
L2.12	HARDSCAPE DETAILS
L3.00	LANDSCAPE PLAN
L3.01	LANDSCAPE PLAN
L3.02	LANDSCAPE PLAN
L3.03	LANDSCAPE PLAN
L3.04	LANDSCAPE PLAN
L3.05	LANDSCAPE PLAN
L3.06	LANDSCAPE PLAN
L3.07	LANDSCAPE PLAN
L3.08	LANDSCAPE PLAN
L4.00	IRRIGATION PLAN
L4.01	IRRIGATION PLAN
L4.02	IRRIGATION PLAN
L4.03	IRRIGATION PLAN
L4.04	IRRIGATION PLAN
L4.05	IRRIGATION PLAN
L4.06	IRRIGATION PLAN
L4.07	IRRIGATION PLAN
L4.08	IRRIGATION PLAN
L4.10	IRRIGATION DETAILS
L4.11	IRRIGATION NOTES
L4.12	IRRIGATION NOTES
C6.00	LIGHTING GENERAL NOTES
C6.01	LIGHTING PLAN
C6.02	LIGHTING PLAN
C6.03	LIGHTING PLAN
C6.04	LIGHTING PLAN
C6.05	LIGHTING PLAN
C6.06	LIGHTING PLAN
C6.07	LIGHTING PLAN
C6.08	LIGHTING PLAN
C6.09	LIGHTING PLAN



CITY OF FORT LAUDERDALE

PROJECT #12557

NE 4TH AVE STREETScape PROJECT

NE 4TH AVE FROM E SUNRISE BLVD TO NE 13TH ST
FORT LAUDERDALE, FLORIDA

BEGIN PROJECT MP. 0.000
END PROJECT MP. 0.406

DESIGN SPEED: 40 MPH
POSTED SPEED: 30 MPH

CURRENT EDITIONS OF APPLICABLE STANDARDS
AND MANUALS USED:

2016 MANUAL OF UNIFORM MINIMUM STANDARDS
FOR DESIGN, CONSTRUCTION AND MAINTENANCE
FOR STREETS AND HIGHWAYS (FLORIDA
GREENBOOK)

CITY OF FORT LAUDERDALE STANDARDS

REFERENCE STANDARDS:
2021 FDOT DESIGN MANUAL
2021-22 FDOT STANDARD PLANS FOR ROAD AND
BRIDGE CONSTRUCTION

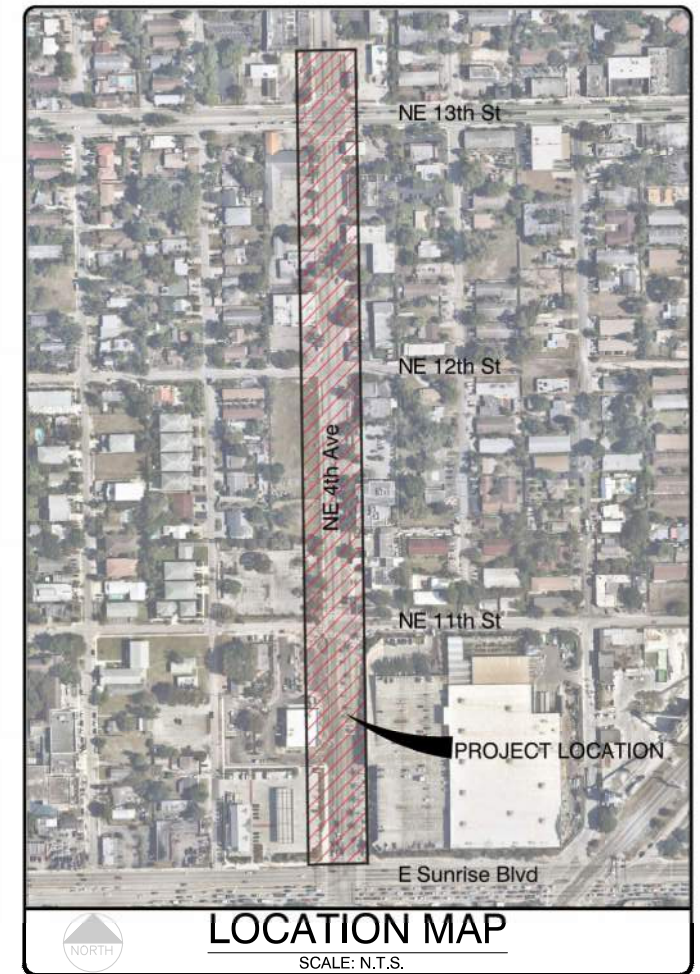
2021 FDOT STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION

PERMIT NUMBER: 2021-L-491-00011
SECTION NUMBER: 86170
STATE ROAD: SR-811

PLANS REFERENCE 2022 FDOT DESIGN MANUAL, FY 2021-22 STANDARD PLANS

REFER TO APPROVED DESIGN VARIANCE MEMORANDUM (PERMIT #2021-L-491-00011) FOR THE PROPOSED AND EXISTING ROADSIDE TREES (EXPECTED DIAMETER GREATER THAN 4" AT 6" ABOVE GROUND LEVEL) WITHIN THE 4' LATERAL OFFSET FROM FACE OF CURB PER FDM CHAPTER 215, THE CONVENTION LIGHT POLES WITHIN THE 4' LATERAL OFFSET FROM FACE OF CURB PER FDM CHAPTER 215, AND THE EXISTING TREES WITHIN THE LIMITS OF CLEAR SIGHT (LOCS) PER FDM CHAPTER 212.

DESIGN SPEED: 40 M.P.H.



PROJECT #12557
NE 4TH AVE STREETScape PROJECT
NE 4TH AVE FROM E SUNRISE BLVD TO NE 13TH ST

CITY OF FORT LAUDERDALE
TRANSPORTATION
&
MOBILITY
290 NE 3RD AVE, FORT LAUDERDALE, FL 33301

FORT LAUDERDALE CITY COMMISSION

DEAN J. TRANTALIS	MAYOR
HEATHER MORAITIS	COMMISSIONER - DISTRICT I
STEVEN GLASSMAN	COMMISSIONER - DISTRICT II
ROBERT McKINZIE	COMMISSIONER - DISTRICT III
BEN SORENSEN	COMMISSIONER - DISTRICT IV

JONATHAN D. HAIGH, P.L.A.	KIMLEY HORN	(561)845-0665
ISTVAN VIRAG	CITY PROJECT MANAGER	(954)828-4697

DATE: 07/07/2022
CAD FILE: XXXXX-XXX-XXX000
FDOT LANDSCAPE PERMIT No.: 2021-L-491-00011

FDOT GENERAL NOTES

1. ANY PLANT MATERIAL SUBSTITUTION WITHIN OR IMPACTING THE FDOT RIGHT OF WAY WHETHER REQUESTED BY THE CONTRACTOR, OWNER, LANDSCAPE ARCHITECT OR OTHER WILL NEED TO GET APPROVAL FROM THE FDOT DISTRICT LANDSCAPE ARCHITECT.
2. PATTERNED PAVEMENT INSTALLATION SHALL COMPLY WITH CURRENT FDOT STANDARD SPECIFICATION 523. ONLINE REFERENCE:
https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/implemented/specbooks/january2021/1-21ebook.pdf?sfvrsn=1c62cb58_2
3. CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE DONE TO FDOT PROPERTY DURING DEMOLITION, RELOCATION AND/OR INSTALLATION ACTIVITIES AT HIS SOLE EXPENSE.
4. OWNERSHIP OF ALL SUITABLE EXCAVATED MATERIALS, AS DETERMINED BY THE DEPARTMENT, SHALL REMAIN IN THE DEPARTMENT UNTIL A FINAL ACCEPTANCE OF THE PERMITTED PROJECT IS FULFILLED. EXCAVATED MATERIALS SHALL BE HAULED BY THE PERMITTEE, AT THEIR COST AND EXPENSE FROM THE SITE TO THE BROWARD OPERATIONS CENTER OR STOCKPILED IN THOSE AREAS AS DIRECTED BY THE DEPARTMENT, INCLUDING ASPHALT MILLINGS.
5. PERMITTEE WILL RESTORE THE RIGHT OF WAY AS A MINIMUM, TO ITS ORIGINAL CONDITION OR BETTER IN ACCORDANCE WITH FDOT LATEST STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION OR AS DIRECTED BY THE RESIDENT OPERATIONS ENGINEER.
6. RESTRICTED HOURS OF OPERATION FOR LANE CLOSURES WILL BE FROM 9:00 AM TO 3:30 PM, (MONDAY-FRIDAY), UNLESS OTHERWISE APPROVED BY THE OPERATIONS ENGINEER, OR DESIGNEE.
7. PERMITTEE WILL COORDINATE (I.E. PRE-CONSTRUCTION MEETINGS, INSPECTIONS, FINAL ACCEPTANCE OF WORK, ETC.) WITH FDOT BROWARD OPERATIONS CENTER PERMITTING DEPARTMENT COORDINATION WILL INCLUDE PRE-CONSTRUCTION. CERTIFICATION ACCEPTANCE AND FINAL APPROVAL IS CONTINGENT UPON CONFORMITY OF ALL WORK COMPLETED ACCORDING TO THIS PERMIT AND THE RESTORATION OF THE RIGHT OF WAY.
8. ALL MATERIALS AND CONSTRUCTION WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN (FDOT) RIGHT-OF-WAY SHALL CONFORM TO THE "LATEST VERSION OF FDOT STANDARD PLANS FOR ROADS AND BRIDGE CONSTRUCTION AND LATEST VERSION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
9. ALL MAINTENANCE OF TRAFFIC M.O.T. FOR THIS PROJECT WILL BE IN COMPLIANCE WITH THE DEPARTMENTS CURRENT EDITION OF THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDICES, (102-600 SERIES) AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE OPERATIONS ENGINEER OR HIS DESIGNEE RESERVES THE RIGHT TO DIRECT THE REMOVAL/RELOCATION/MODIFICATION OF ANY TRAFFIC DEVICE(S) AT THE PERMITTEE'S SOLE EXPENSE. SPECIAL ATTENTION WILL BE GIVE TO INDICES 102-611, 102-612, 102-613, 102-614, 102-615, 102-616, AND 102-660.
10. IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN FINAL ACCEPTANCE OF PERMITTED WORK (COMPLETED) AND THE RESTORATION OF THE RIGHT-OF-WAY FROM THE FDOT PRIOR TO USAGE.

FDOT PLANTING NOTES

1. FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY, LANDSCAPE INSTALLATION SHALL COMPLY WITH CURRENT APPLICABLE FDOT MAINTENANCE SPECIFICATION 580. ONLINE REFERENCE:
<https://www.fdot.gov/programmanagement/maintenance/2021jan/maintenance-specifications>
 ---JANUARY-2021
2. FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY REFER TO THE FDOT STANDARD PLANS INDEX 580-001 LANDSCAPE INSTALLATION. ONLINE REFERENCE:
<https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2022/idx/580-001.pdf>
3. CYPRESS MULCH IS NOT PERMITTED ON FDOT RIGHT OF WAY. MULCH PERMITTED TO BE USED ARE HARDWOOD MULCH (CONTAINING NO CYPRESS PRODUCTS), RECYCLED MULCH OR APPROVED EQUAL, CERTIFIED BY THE MULCH AND SOIL COUNCIL (MSC). SUBMIT PROOF OF CERTIFICATION TO THE FDOT DISTRICT OPERATIONS PERMIT LANDSCAPE INSPECTOR UPON INSPECTION.

FDOT IRRIGATION NOTES

1. FDOT REQUIRES 24-HOUR EMERGENCY ACCESS TO WATER SOURCE.
2. CONTRACTOR SHALL PROVIDE FDOT DISTRICT OPERATIONS MANAGER WITH A SET OF "AS-BUILT" IRRIGATION PLANS.
3. CUTTING/PATCHING THE ROADWAY SURFACE IS PROHIBITED AS A PART OF THE SCOPE OF THIS PROJECT.
4. PERMITTEE'S REPRESENTATIVE & AN FDOT INSPECTOR MUST BE ON SITE DURING ALL BORING ACTIVITIES. UPON COMPLETION OF THE BORING ACTIVITIES, PERMITTEE SHALL PROVIDE ALL DOCUMENTATION TO BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, SECTION 555 OR 556, WHICHEVER IS APPLICABLE.
5. PERMITTEE'S CONTRACTORS THAT ARE PERFORMING DIRECTIONAL DRILLING AND/OR JACK AND BORE ACTIVITIES SHALL PROVIDE THE DEPARTMENT (PERMITS OFFICE) PROOF OF A PROPER STATE CONTRACTOR'S LICENSE AND CERTIFICATE OF LIABILITY INSURANCE PRIOR TO ANY COMMENCEMENT OF PERMITTED WORK.
6. PERMITTEE WILL ENSURE THAT ALL LOCATES HAVE BEEN PERFORMED PRIOR TO SCHEDULING OF ANY BORING ACTIVITIES. THIS SHALL INCLUDE SOFT DIGS TO VERIFY VERTICAL & HORIZONTAL ALIGNMENT.
7. SLEEVING MUST BE 36" BELOW THE ROADWAY. VERIFY WITH FDOT MAINTENANCE THAT SLEEVING/DIRECTIONAL BORE IS PERMITTED AT THIS TIME. A NEWLY RESURFACED ROAD CANNOT BE DISTURBED FOR 5 YEARS.


Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: C0.02 FDOT NOTES July 26, 2022 03:21:55pm K:\WPB JURIS\04-3184061 - NE 4th AVE FTL\CAD\PlanSheets\Co.01 GENERAL NOTES.dwg

Kimley-Horn

1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY 686
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021	SCALE: AS SHOWN	FIELD BOOK:
DRAWN BY:	DESIGNED BY:	CHECKED BY:

CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

 290 NE 3RD AVE, FORT LAUDERDALE, FL 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY (CHK'D)

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 FDOT NOTES

SHEET NO.
C0.02
 CAM 24-1145

VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE
 NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE
 ANTICIPATED. CONTRACTOR'S BID SHALL
 INCLUDE CONSIDERATION FOR ADDRESSING THIS
 ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS
 BEFORE YOU DIG

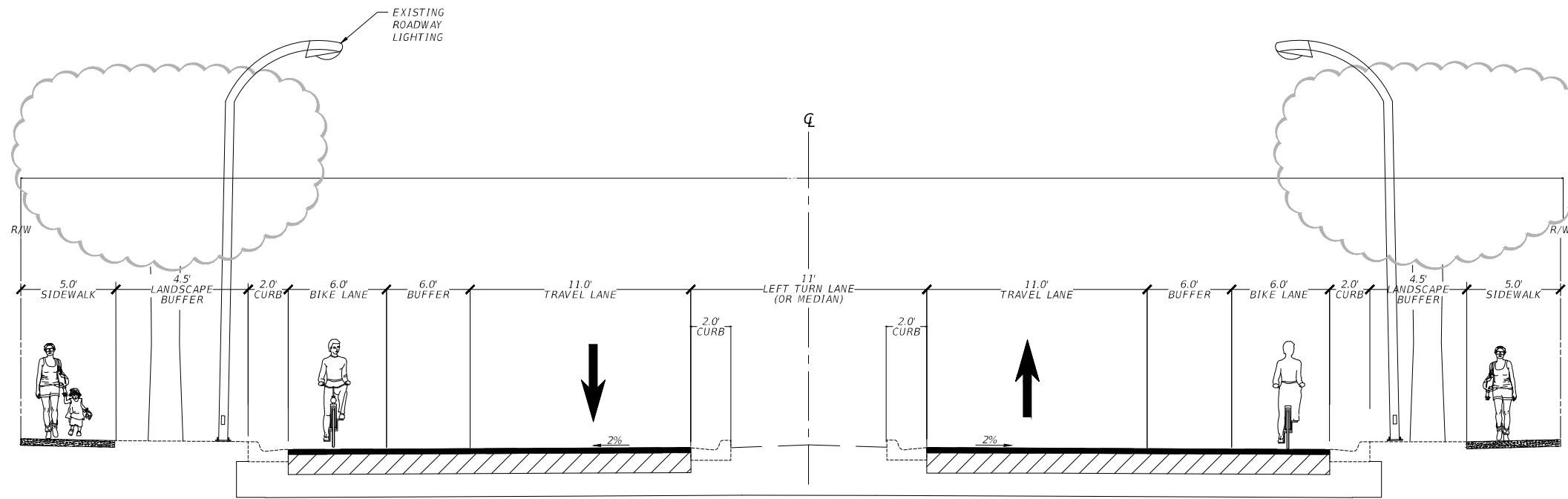
811

IT'S THE LAW!
 DIAL 811

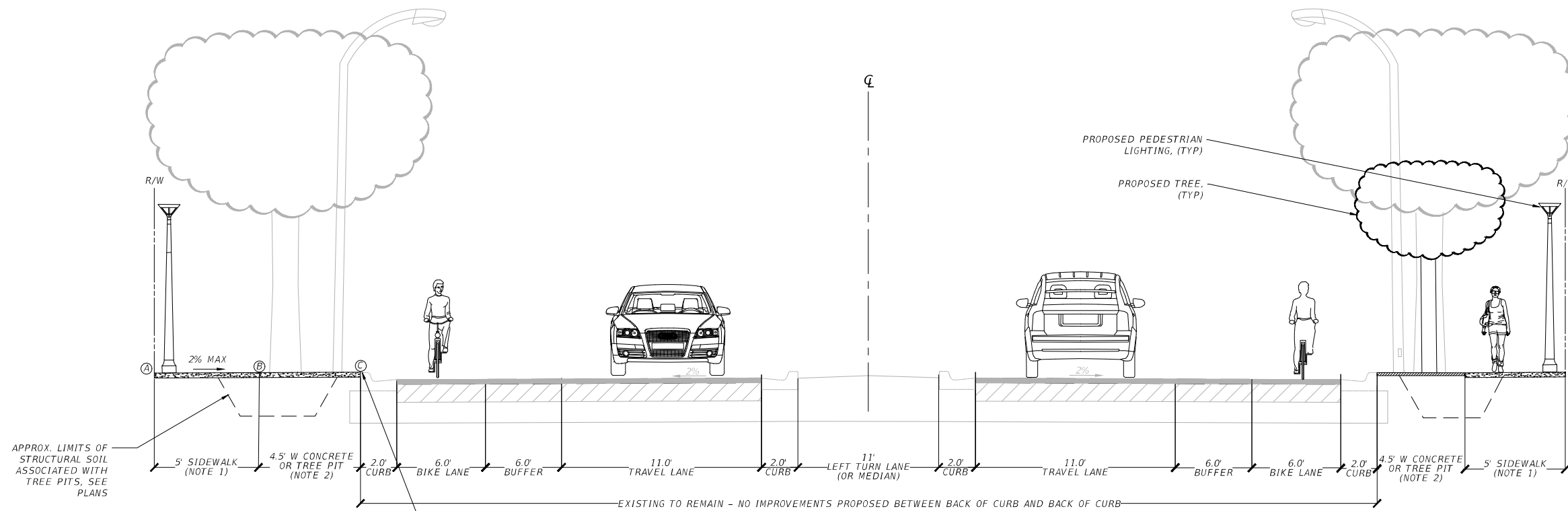
Know what's below.
 Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: C0.10 TYPICAL SECTIONS July 26, 2022 03:22:09pm K:\WPB_LRG_042164061 - NE 4th AVE FTL\CAD\Plansheets\TYPICAL DETAILS.dwg



EXISTING
TYPICAL SECTION N.E. 4TH AVENUE
SUNRISE BOULEVARD TO NE 13TH STREET
FORT LAUDERDALE



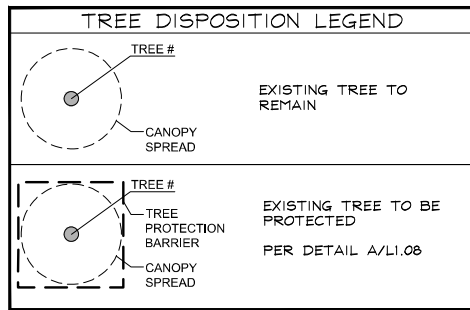
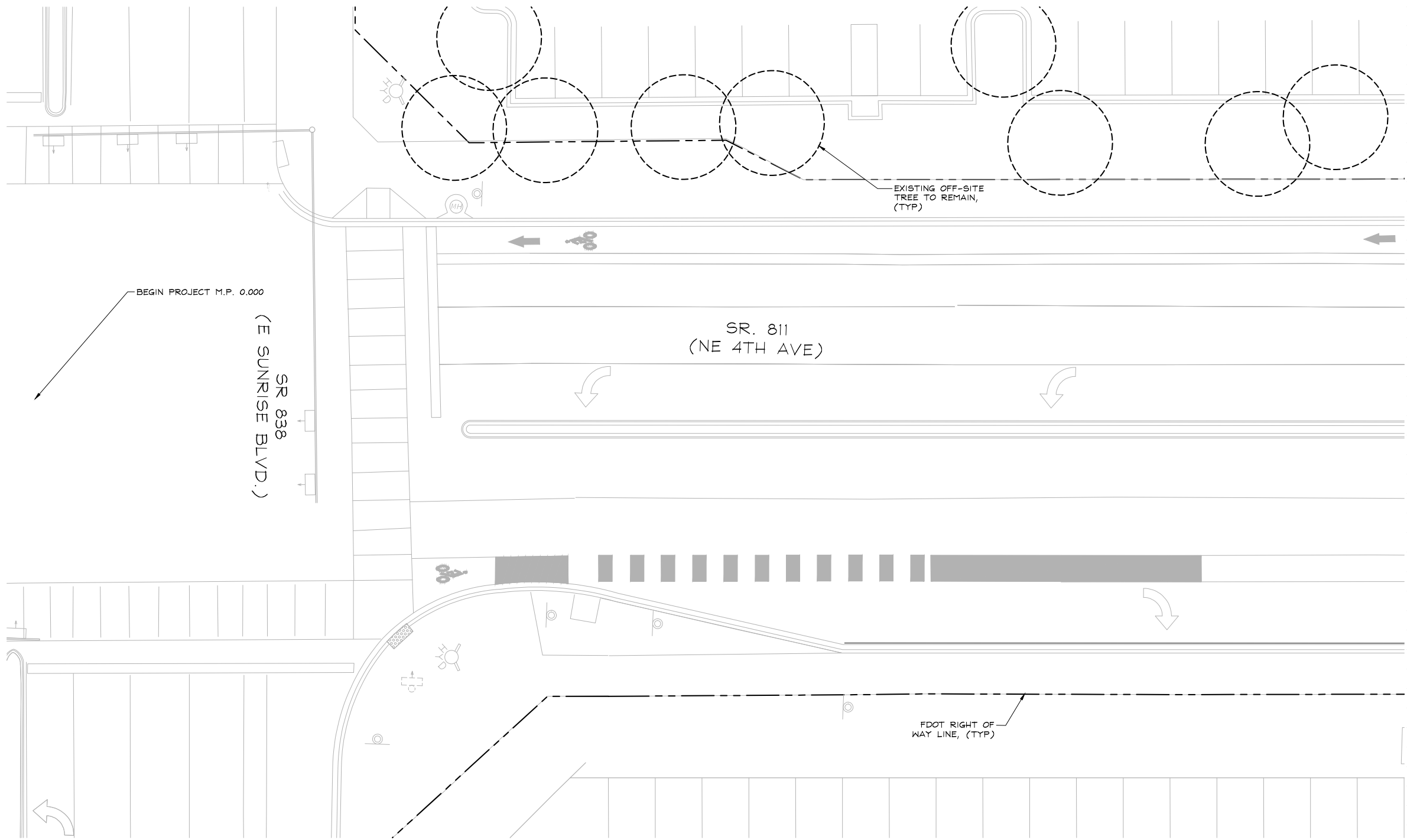
PROPOSED
TYPICAL SECTION N.E. 4TH AVENUE
SUNRISE BOULEVARD TO NE 13TH STREET
FORT LAUDERDALE

- SIDEWALK GRADING NOTES:**
- 1) 5' SIDEWALK BETWEEN 'A' AND 'B' IS TO BE CONSTRUCTED WITH A MAX 2% CROSS-SLOPE.
 - 2) 4.5' CONCRETE (OR TREE PIT AREA) BETWEEN 'B' AND 'C' IS TO BE CONSTRUCTED WITH A MAX 2% CROSS-SLOPE WHERE POSSIBLE, BUT MAY EXCEED 2% CROSS-SLOPE. TOP OF CONCRETE AND TREE PIT SURFACING TO MEET FLUSH WITH TOP OF EXISTING CURB.

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
NE 4TH AVENUE STREETScape PROJECT
E SUNRISE BLVD TO NE 13TH ST
FORT LAUDERDALE, FL
TYPICAL SECTIONS

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L1.00 TREE DISPOSITION PLAN July 26, 2022 03:23:23pm K:\WPB_LRG\042164061 - NE 4th AVE FTL\CAD\Plansheets\L1.00 TREE DISPOSITION.dwg



VERTICAL DATUM
ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG **811**

IT'S THE LAW!
DIAL 811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Kimley-Horn
1920 WEKIVA WAY #200
WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX: 561-330-2245
WWW.KIMLEY-HORN.COM
REGISTRY 696
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL
JONATHAN D. HAIGH, PLA
STATE LICENSE NUMBER
LA #6666795
07/26/2022

DATE: 07/01/2021
DRAWN BY: SCALE: AS SHOWN
DESIGNED BY: CHECKED BY: FIELD BOOK:

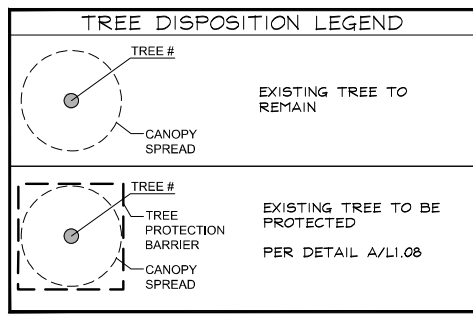
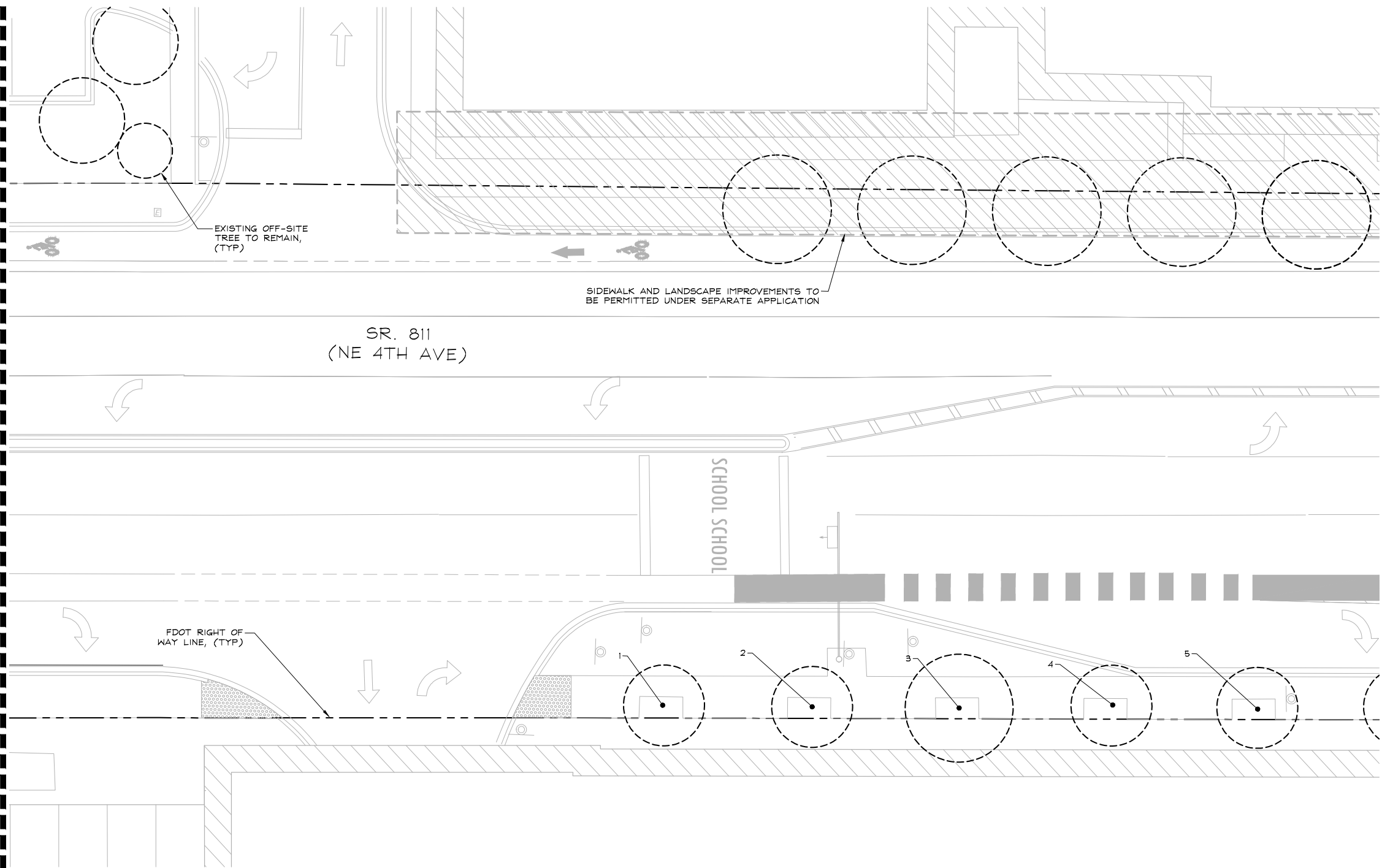
CITY OF FORT LAUDERDALE
TRANSPORTATION & MOBILITY
250 NE 3RD AVE. FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
NE 4TH AVENUE STREETScape PROJECT
E SUNRISE BLVD TO NE 13TH ST
FORT LAUDERDALE, FL
TREE DISPOSITION PLAN

SHEET NO.
L1.00
CAM 24-1145

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L1.01 TREE DISPOSITION PLAN July 26, 2022 03:25:26pm K:\WPB_JRG\04-2184061 - NE 4th AVE FTL\CAD\Plansheets\L1.00 TREE DISPOSITION.dwg



VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG **811**

IT'S THE LAW! DIAL 811 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER LA #6666795
 07/26/2022

DATE: 07/01/2021
 DESIGNED BY: JAS
 CHECKED BY: SHOWN
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

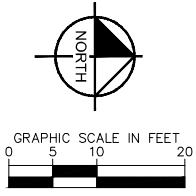
 250 NE 3RD AVE., FORT LAUDERDALE, FL 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETSCAPE PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 TREE DISPOSITION PLAN

SHEET NO.
L1.01
 CAM 24-1145


Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L1.02 TREE DISPOSITION PLAN July 26, 2022 03:23:30pm K:\WPB_LRG\042164061 - NE 4th AVE FTL\CAD\Plansheets\L1.00 TREE DISPOSITION.dwg



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

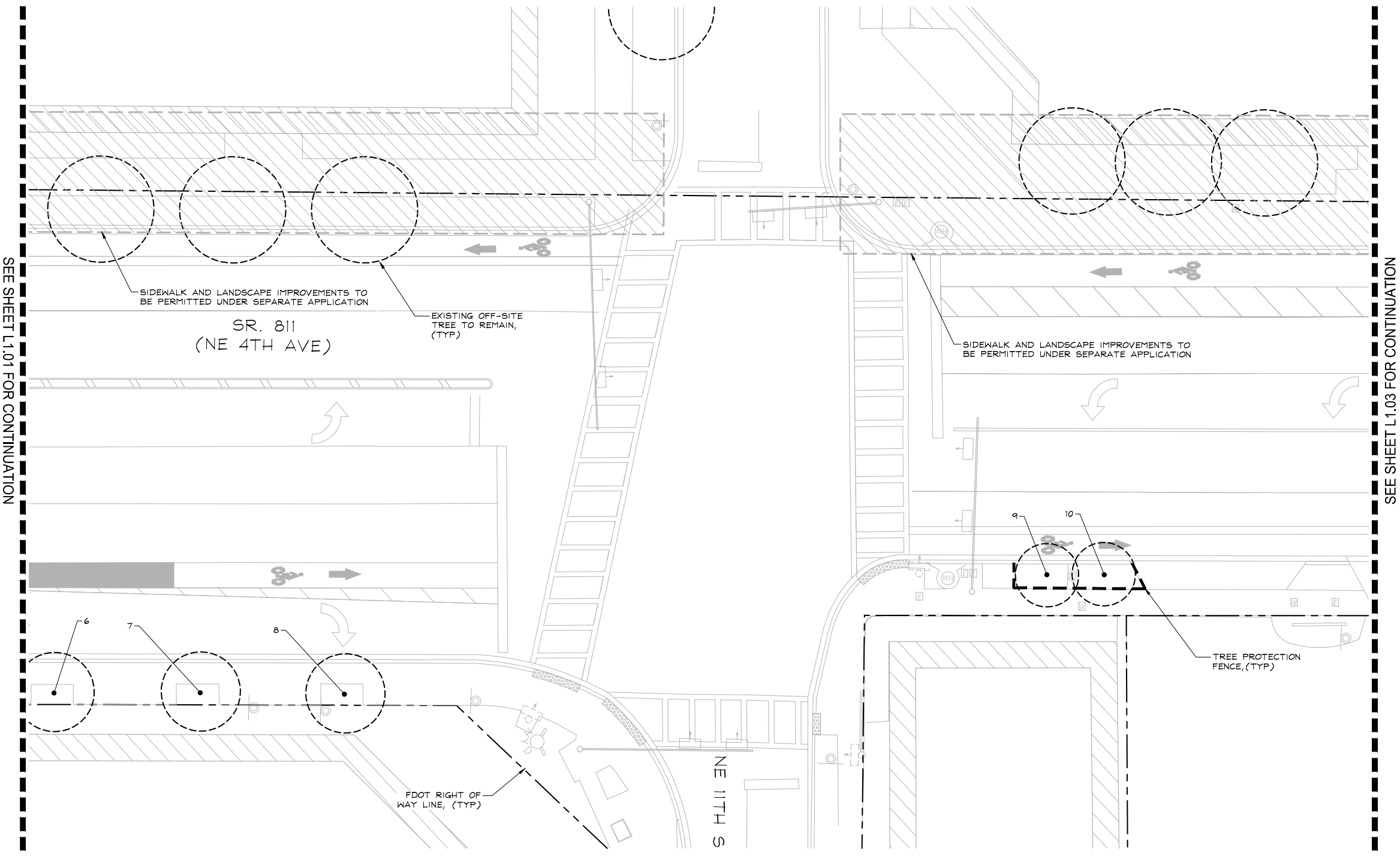
DATE: 07/01/2021
 DRAWN BY: JAS
 DESIGNED BY: JAS
 CHECKED BY: JAS
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY (CHK'D)

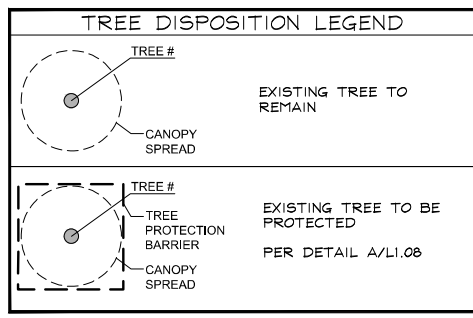
PROJECT # 12557
 NE 4TH AVENUE STREETSCAPE PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 TREE DISPOSITION PLAN

SHEET NO.
L1.02
 CAM 24-1145





SEE SHEET L1.01 FOR CONTINUATION

SEE SHEET L1.03 FOR CONTINUATION

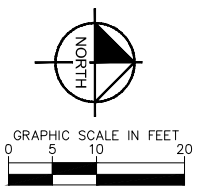
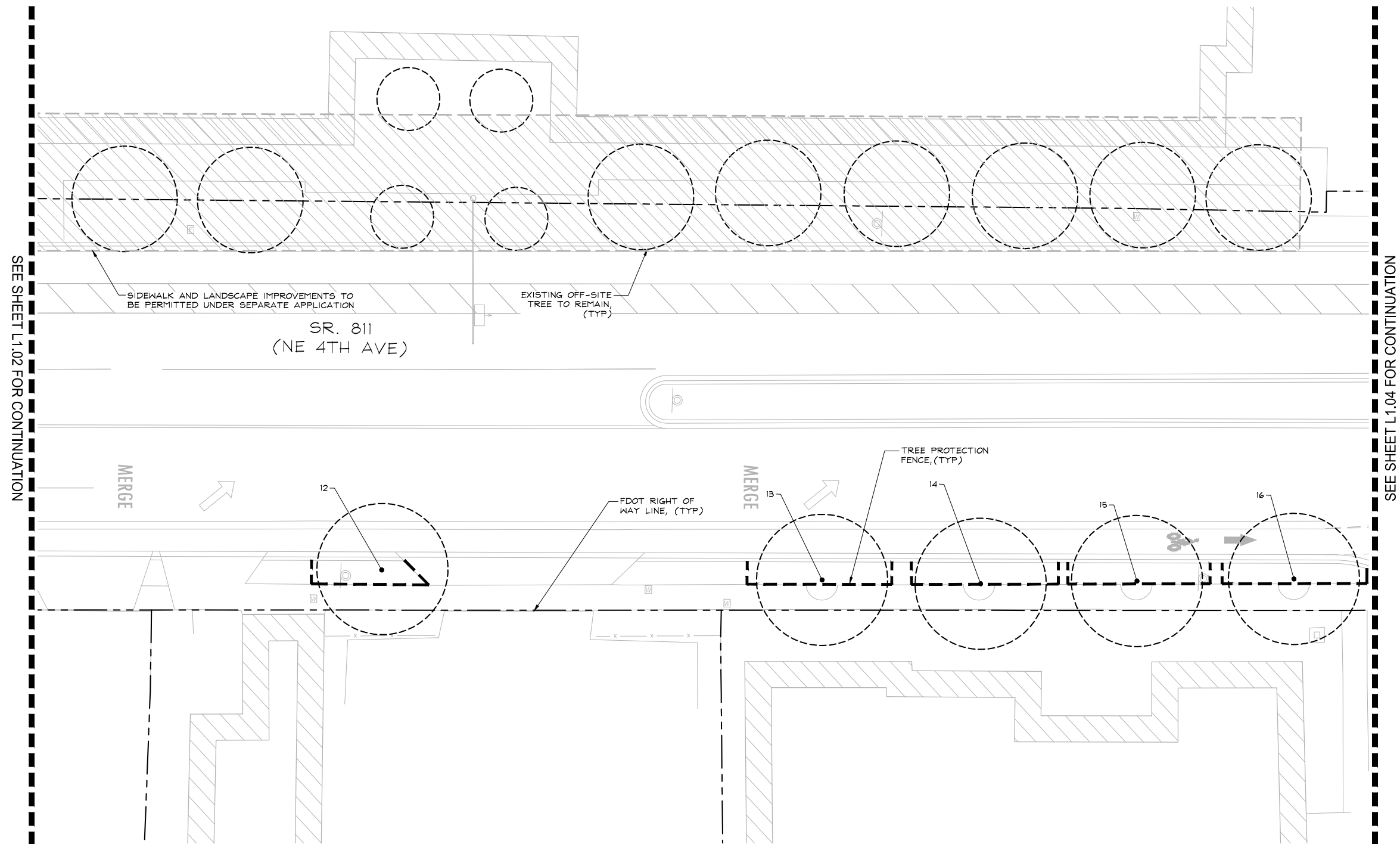


VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

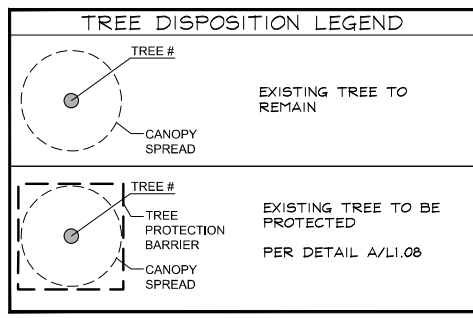
CALL 2 WORKING DAYS BEFORE YOU DIG 
 IT'S THE LAW! DIAL 811 
 Know what's below. Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L1.03 TREE DISPOSITION PLAN July 26, 2022 03:23:33pm K:\WPB_LRG\042164061 - NE 4th AVE FTL\CAD\Plansheets\L1.03 TREE DISPOSITION.dwg



SEE SHEET L1.02 FOR CONTINUATION

SEE SHEET L1.04 FOR CONTINUATION



VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG

811

IT'S THE LAW!
 DIAL 811

Know what's below.
 Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Kimley-Horn

1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #99
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL

JONATHAN D. HAIGH, PLA

STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DRAWN BY: JAS
 DESIGNED BY: JAS
 CHECKED BY: JAS
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

250 NE 3RD AVE. FORT LAUDERDALE, FL 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

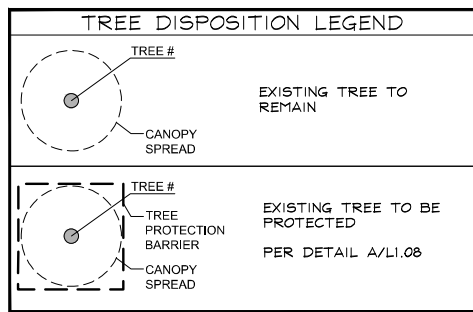
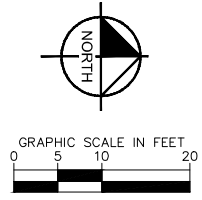
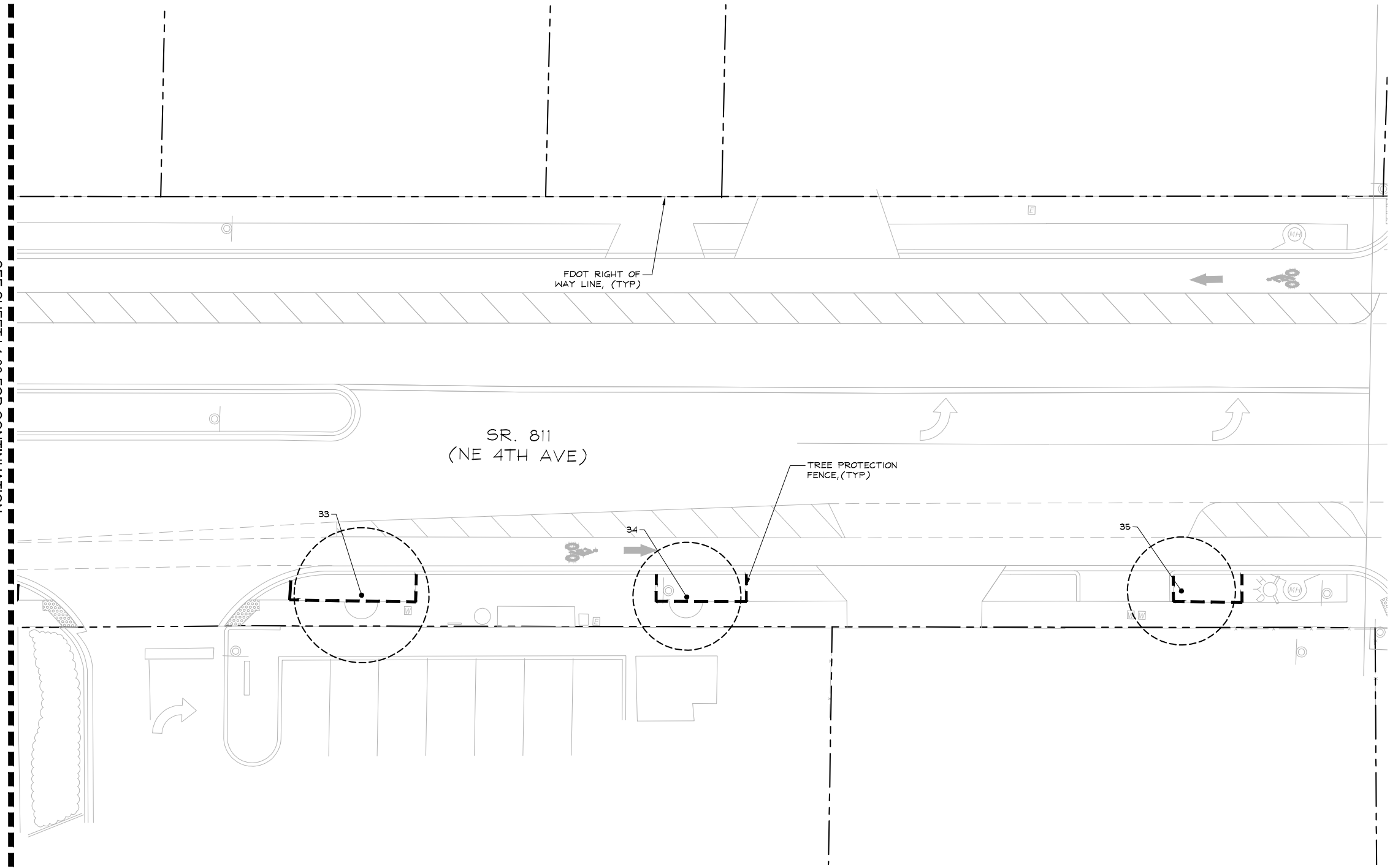
PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 TREE DISPOSITION PLAN

SHEET NO.
L1.03

AM 24-1145

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L1.04 TREE DISPOSITION PLAN July 26, 2022 03:23:36pm K:\WPB_LRG\042164061 - NE 4th AVE FTL\CAD\Plansheets\L1.00 TREE DISPOSITION.dwg

SEE SHEET L1.03 FOR CONTINUATION



VERTICAL DATUM
ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG **811**

IT'S THE LAW!
DIAL 811 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Kimley-Horn
1920 WEKIVA WAY #200
WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX:
561-330-2245
WWW.KIMLEY-HORN.COM
REGISTRY #66
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL
JONATHAN D. HAIGH, PLA
STATE LICENSE NUMBER
LA #6666795
07/26/2022

DATE: 07/01/2021
DRAWN BY: JAS
DESIGNED BY: JAS
CHECKED BY: SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
TRANSPORTATION & MOBILITY

250 NE 3RD AVE., FORT LAUDERDALE, FL 33301

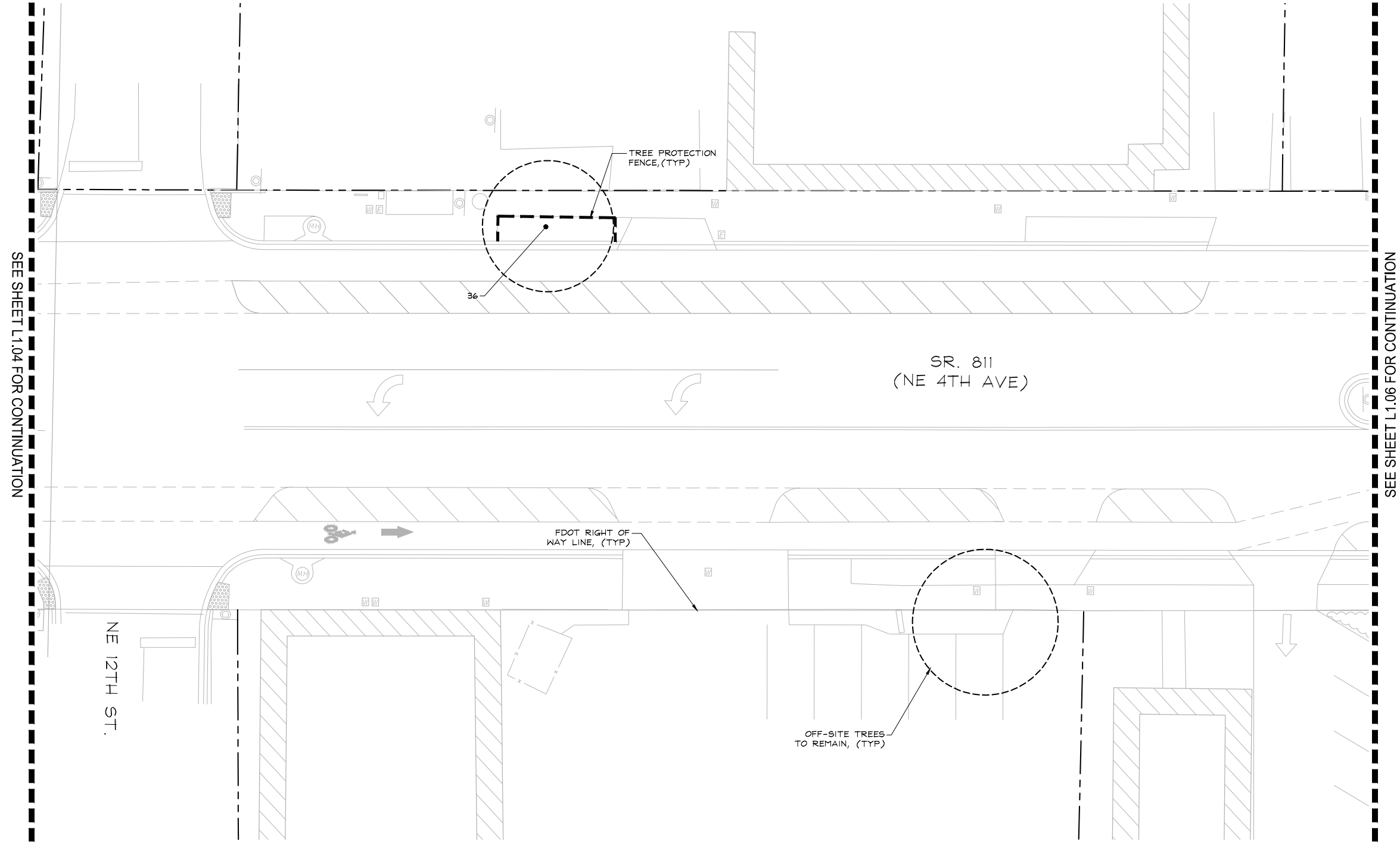
REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
NE 4TH AVENUE STREETScape PROJECT
E SUNRISE BLVD TO NE 13TH ST
FORT LAUDERDALE, FL
TREE DISPOSITION PLAN

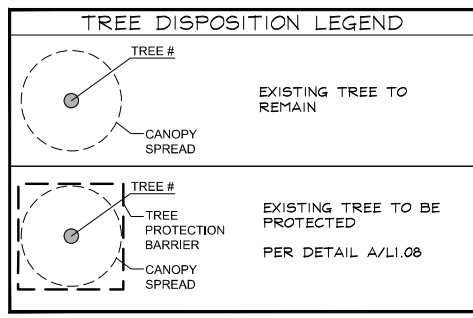
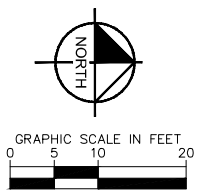
SHEET NO.
L1.04
CAM 24-1145

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L1.05 TREE DISPOSITION PLAN July 26, 2022 03:23:38pm K:\WPB_LRG\042164061 - NE 4th AVE FTL\CAD\Plansheets\L1.00 TREE DISPOSITION.dwg



SEE SHEET L1.04 FOR CONTINUATION

SEE SHEET L1.06 FOR CONTINUATION



VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG

811

IT'S THE LAW!
 DIAL 811

Know what's below.
 Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Kimley-Horn

1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #99
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL

JONATHAN D. HAIGH, PLA

STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DRAWN BY: [blank]
 DESIGNED BY: [blank]
 SCALE: AS SHOWN
 CHECKED BY: [blank]
 FIELD BOOK: [blank]

CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

REVISIONS

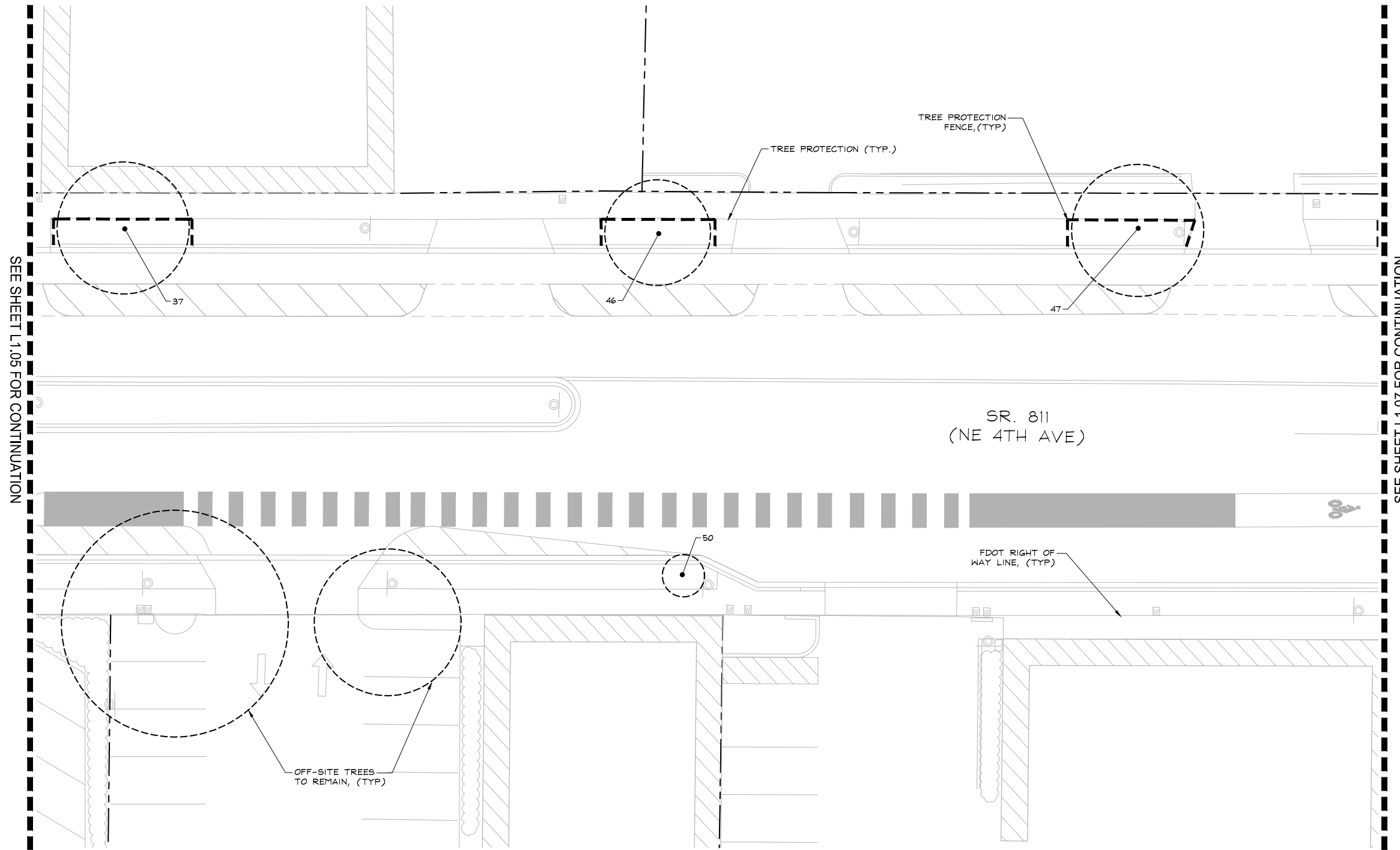
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 TREE DISPOSITION PLAN

SHEET NO.
L1.05

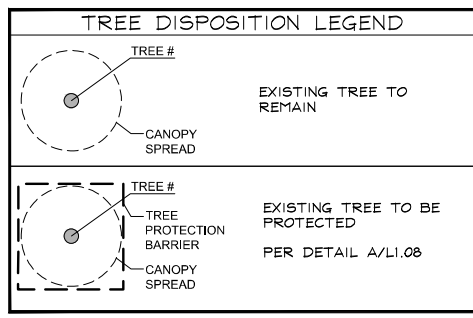
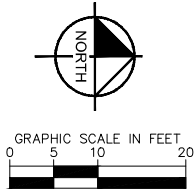
DATE
 07/26/2022

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L1.06 TREE DISPOSITION PLAN July 26, 2022 03:23:43pm K:\WPB_LRG_04\2164061 - NE 4th AVE FTL\CAD\Plansheets\L1.00 TREE DISPOSITION.dwg



SEE SHEET L1.05 FOR CONTINUATION

SEE SHEET L1.07 FOR CONTINUATION



VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG

811

IT'S THE LAW!
 DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Kimley-Horn

1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL

JONATHAN D. HAIGH, PLA

STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DRAWN BY: [blank]
 DESIGNED BY: [blank]
 SCALE: AS SHOWN
 CHECKED BY: [blank]
 FIELD BOOK: [blank]

CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

250 NE 3RD AVE., FORT LAUDERDALE, FL 33301

REVISIONS

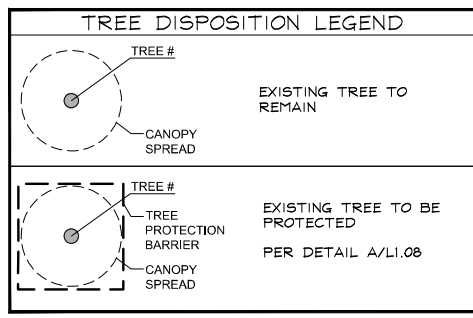
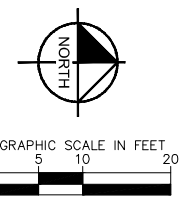
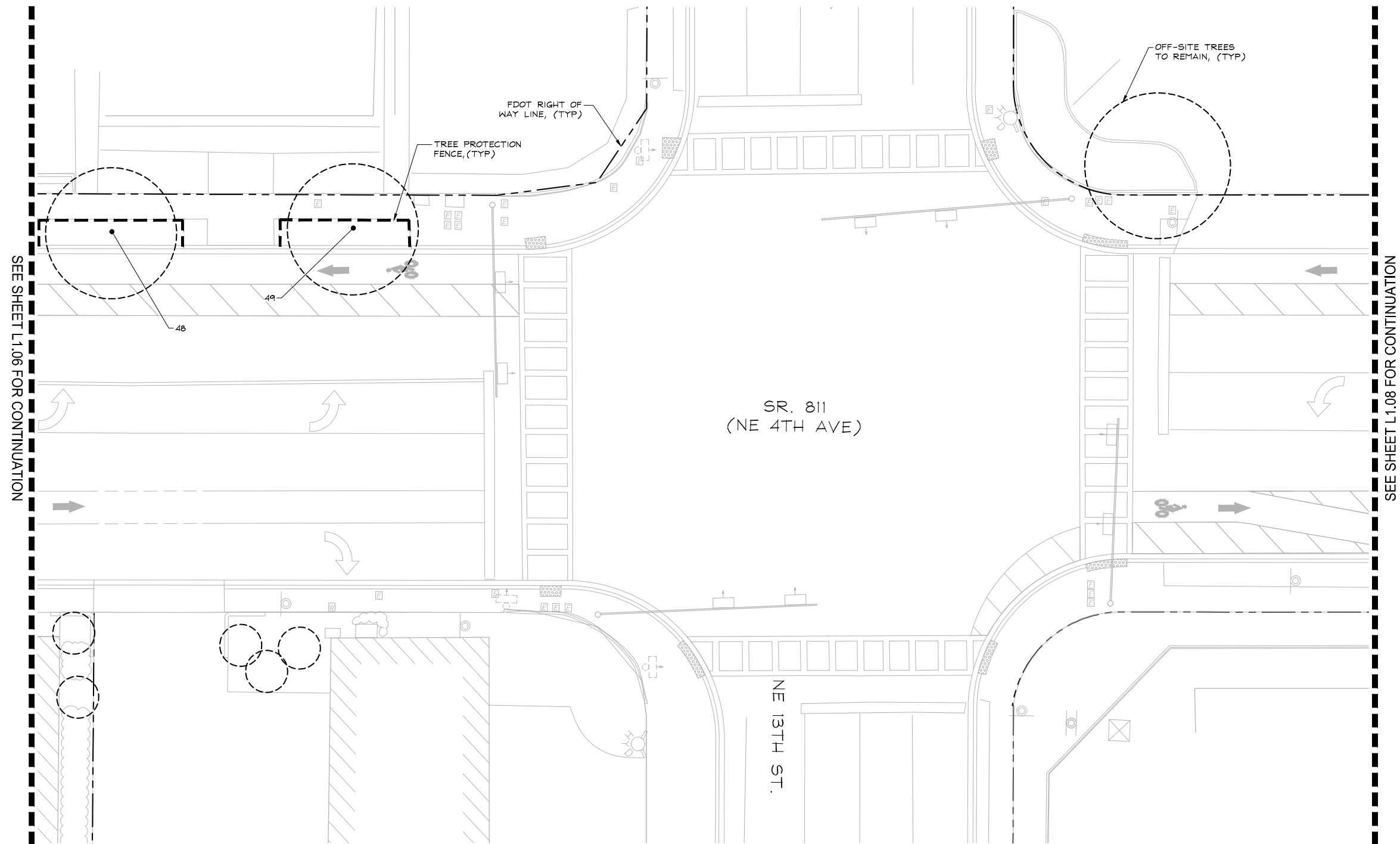
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 TREE DISPOSITION PLAN

SHEET NO.
L1.06

CAM 24-1145

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L1.07 TREE DISPOSITION PLAN July 26, 2022 03:23:45pm K:\WPB_LRG\042164061 - NE 4th AVE FTL\CAD\Plansheets\L1.00 TREE DISPOSITION.dwg



VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG

811

IT'S THE LAW!
 DIAL 811

Know what's below.
 Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL

JONATHAN D. HAIGH, PLA

STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DESIGNED BY: JAS
 CHECKED BY: SHOWN
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

250 NE 3RD AVE., FORT LAUDERDALE, FL 33301

REVISIONS

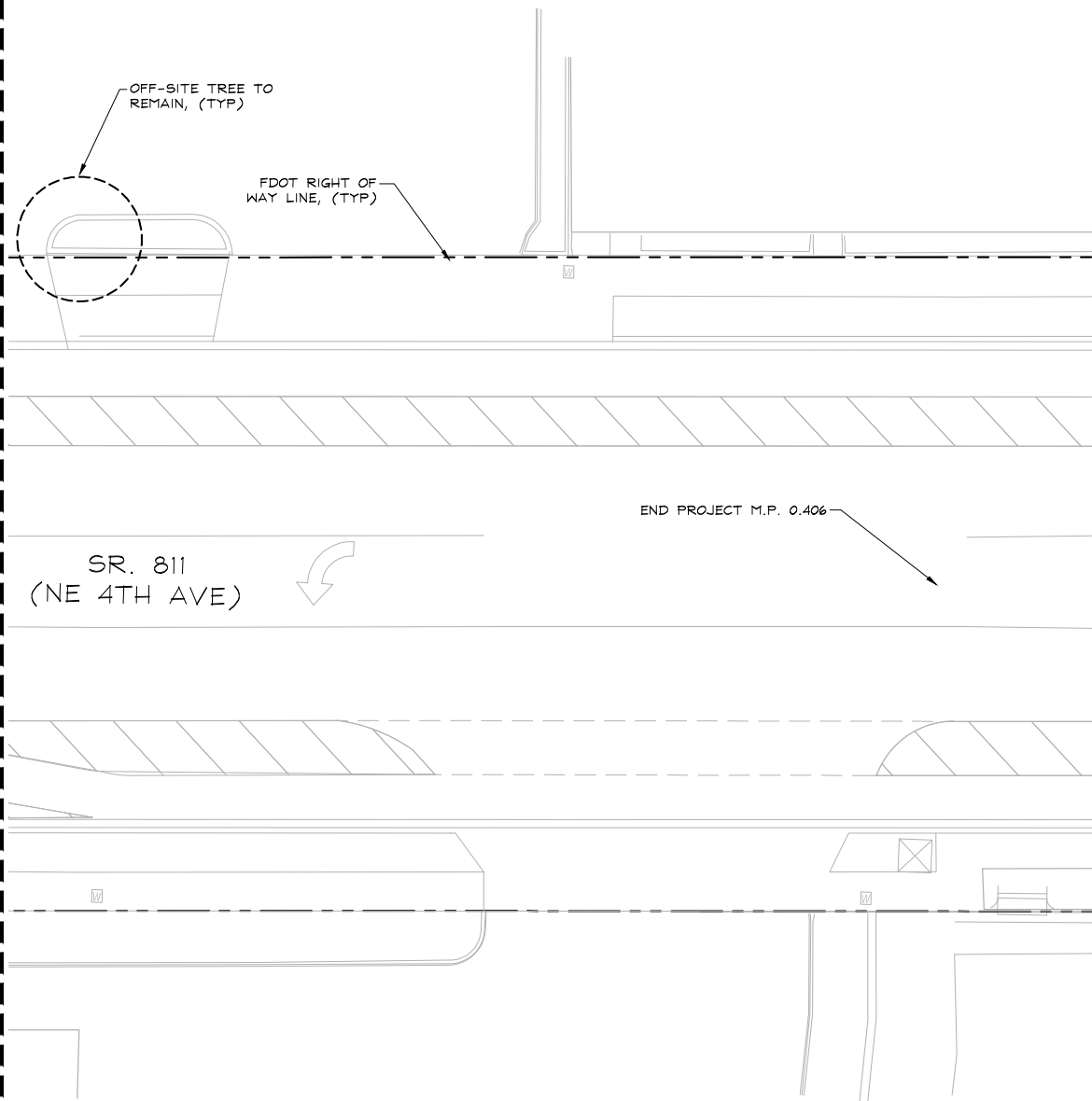
NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 TREE DISPOSITION PLAN

SHEET NO.
L1.07
 CAM 24-1145

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L1.08 TREE DISPOSITION PLAN July 26, 2022 03:23:46pm K:\WPB_LRG\042164061 - NE 4th Ave FTL\CAD\Plansheets\L1.00 TREE DISPOSITION.dwg

SEE SHEET L1.07 FOR CONTINUATION



NO.	BOTANICAL NAME	COMMON NAME	DBH (in)	CT (ft)	SPR (ft)	CONDITION	DISPOSITION
1	<i>Washingtonia robusta</i>	Washington Palm		25	15	Good	Remain
2	<i>Washingtonia robusta</i>	Washington Palm		40	15	Good	Remain
3	<i>Washingtonia robusta</i>	Washington Palm		30	20	Good	Remain
4	<i>Washingtonia robusta</i>	Washington Palm		40	15	Good	Remain
5	<i>Washingtonia robusta</i>	Washington Palm		40	15	Good	Remain
6	<i>Washingtonia robusta</i>	Washington Palm		25	15	Good	Remain
7	<i>Washingtonia robusta</i>	Washington Palm		40	15	Good	Remain
8	<i>Washingtonia robusta</i>	Washington Palm		40	15	Good	Remain
9	<i>Sabal palmetto</i>	Cabbage Palm		10	12	Good	Remain
10	<i>Sabal palmetto</i>	Cabbage Palm		15	12	Good	Remain
11	<i>Quercus virginiana</i>	Southern Live Oak	7	25	25	Good	Remain
12	<i>Quercus virginiana</i>	Southern Live Oak	10	25	25	Good	Remain
13	<i>Quercus virginiana</i>	Southern Live Oak	6	25	25	Good	Remain
14	<i>Quercus virginiana</i>	Southern Live Oak	6	25	25	Good	Remain
15	<i>Quercus virginiana</i>	Southern Live Oak	6	25	25	Good	Remain
16	<i>Quercus virginiana</i>	Southern Live Oak	6	25	25	Good	Remain
33	<i>Quercus virginiana</i>	Southern Live Oak	14	30	25	Good	Remain
34	<i>Quercus virginiana</i>	Southern Live Oak	10	30	20	Good	Remain
35	<i>Quercus virginiana</i>	Southern Live Oak	8	25	20	Good	Remain
36	<i>Quercus virginiana</i>	Southern Live Oak	8	30	25	Good	Remain
37	<i>Quercus virginiana</i>	Southern Live Oak		35	25	Good	Remain
46	<i>Quercus virginiana</i>	Southern Live Oak	8	25	20	Good	Remain
47	<i>Quercus virginiana</i>	Southern Live Oak	10	25	25	Good	Remain
48	<i>Quercus virginiana</i>	Southern Live Oak	8	30	25	Good	Remain
49	<i>Quercus virginiana</i>	Southern Live Oak	10	30	25	Good	Remain
50	<i>Phoenix roebelenii</i>	Pygmy Date Palm		6	8	Good	Remain

EXISTING TREE - PRUNING NOTES:

- TREE PRUNING WORK MUST BE PERFORMED BY OR DIRECTLY SUPERVISED BY AN ISA CERTIFIED ARBORIST.
- CONTRACTOR SHALL HOLD A PRE-PRUNING CONFERENCE WITH THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO COMMENCING PRUNING OPERATIONS.
- PRUNE TREES PER ANSI A300 FOR THE FOLLOWING:
 - MAINTENANCE - TO MAINTAIN OR IMPROVE THE TREE'S HEALTH AND STRUCTURE
 - HAZARD REDUCTION - TO REMOVE DEAD LIMBS OR OTHER VISIBLE HAZARDS FROM THE TREE CANOPY
 - CROWN CLEANING - TO SELECTIVELY REMOVE DEAD, DYING OR DISEASED BRANCHES, WEAK BRANCHES, AND SUCKER SPROUTS.
 - CROWN RAISING - TO REMOVE LOWER BRANCHES TO PROVIDE VERTICAL CLEARANCE
 - VISTA PRUNING - TO SELECTIVELY THIN FRAMEWORK LIMBS WITHIN THE CROWN TO ALLOW FOR VIEWS THROUGH THE TREE
 - CROWN RESTORATION - TO IMPROVE THE STRUCTURE, FORM, AND APPEARANCE OF A TREE THAT HAS BEEN DAMAGED, HEADED, OR VANDALIZED

Kimley-Horn
 1920 WERLVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 SCALE: AS SHOWN
 DRAWN BY: []
 DESIGNED BY: []
 CHECKED BY: []
 FIELD BOOK: []

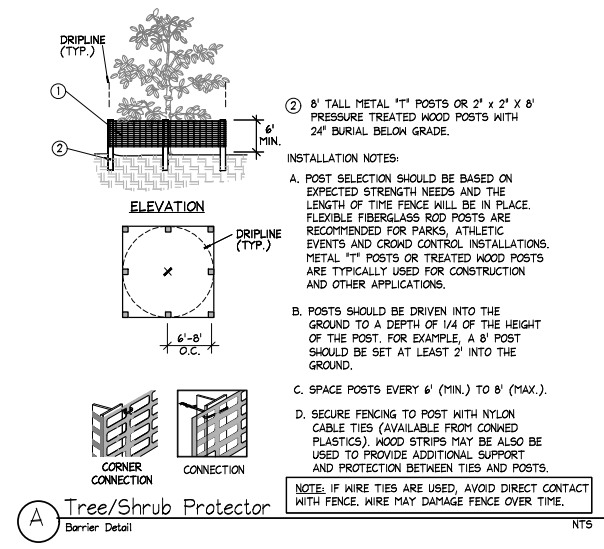
CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 TREE DISPOSITION PLAN

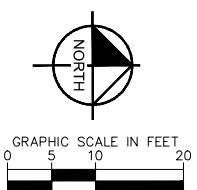
SHEET NO.
L1.08
 CAM 24-1145



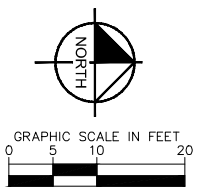
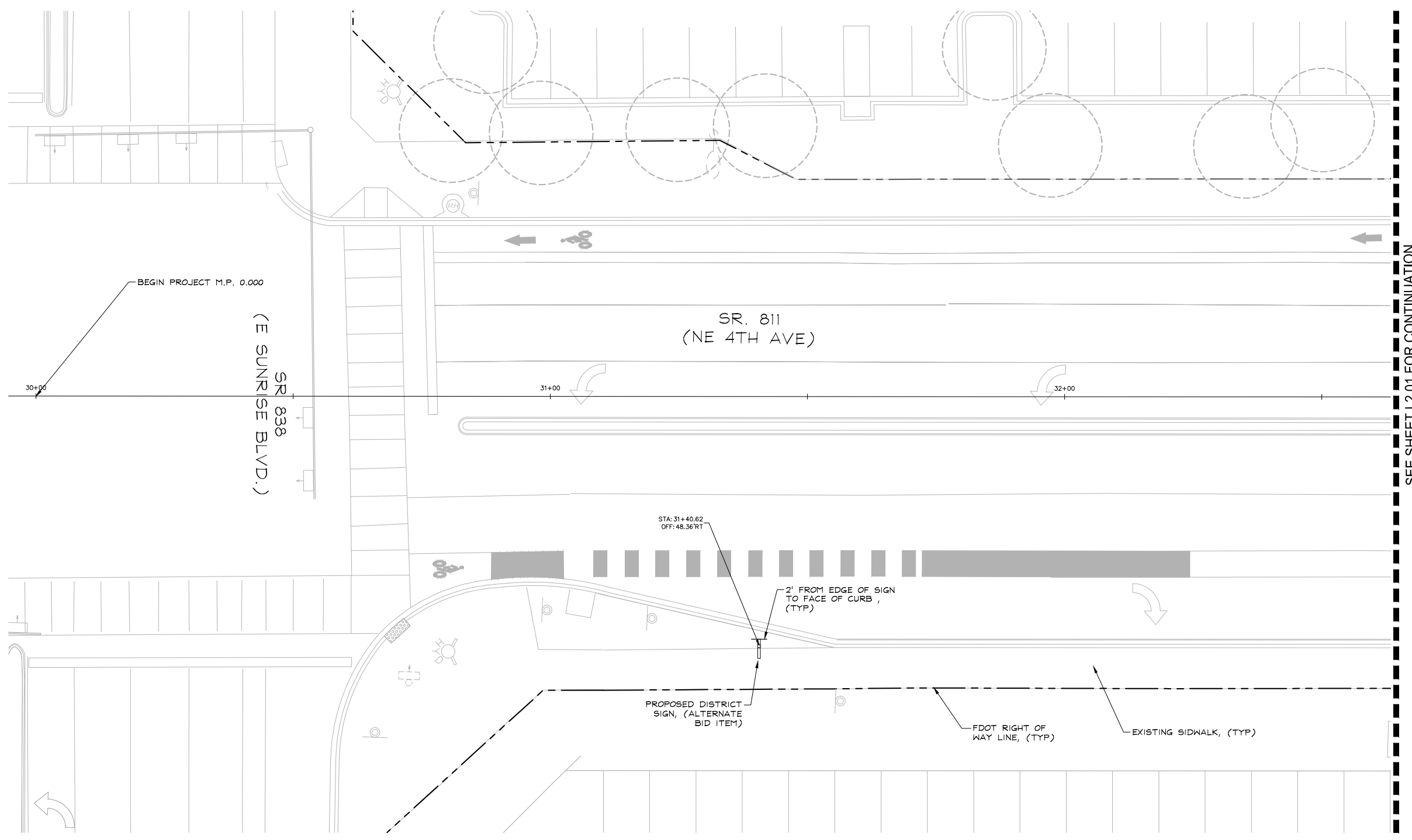
VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG
811
 IT'S THE LAW!
 DIAL 811
 Know what's below.
 Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.



Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.00 HARDSCAPE PLAN July 26, 2022 03:24:14pm K:\WPB_JUR\043184061 - NE 4th AVE\FL\CAD\Plansheets\L2.00 HARDSCAPE PLAN.dwg




SEE SHEET L2.01 FOR CONTINUATION

Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY 696
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DRAWN BY:	DATE:	DESIGNED BY:	SCALE:	CHECKED BY:	FIELD BOOK:
	07/01/2021		AS SHOWN		

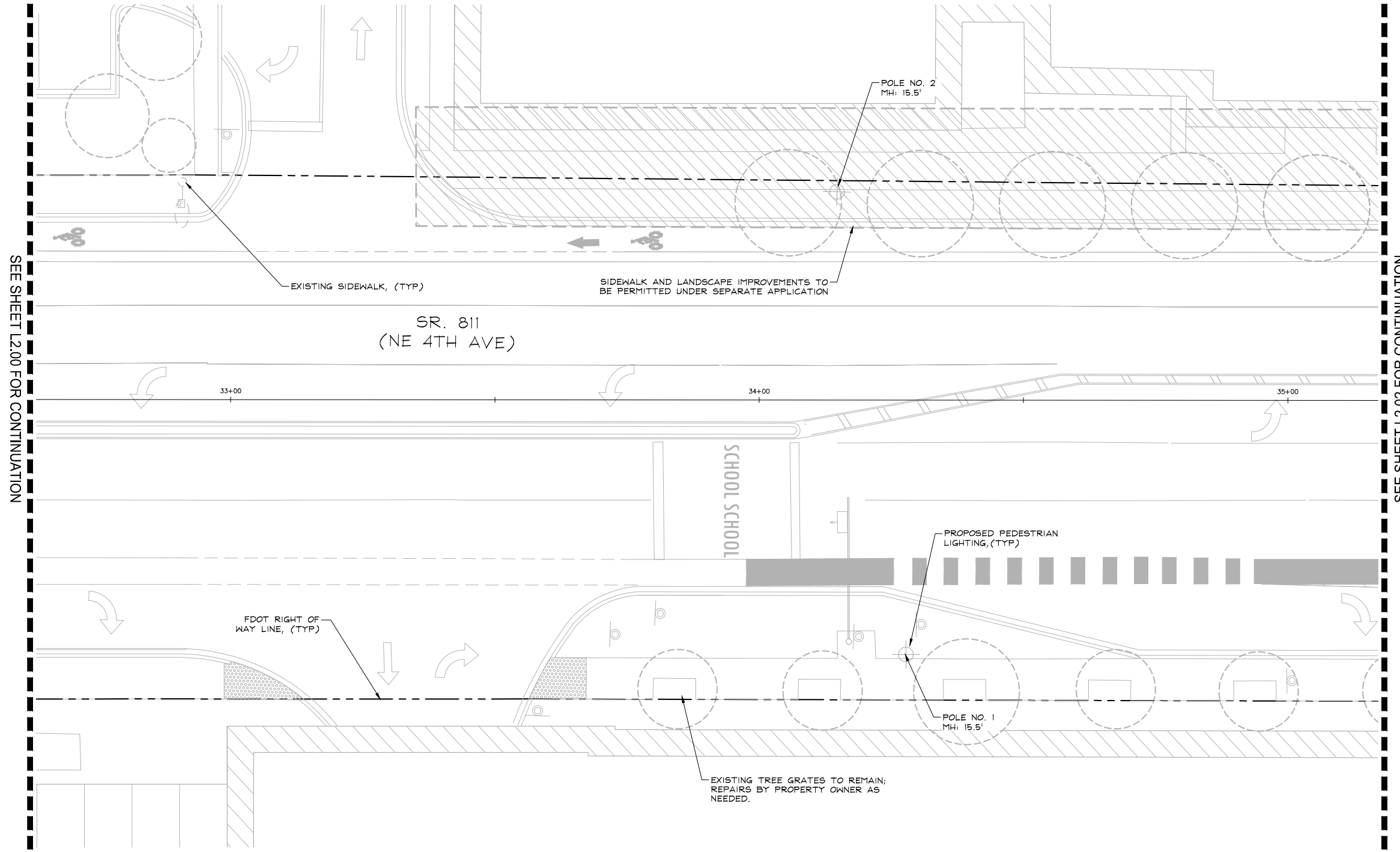
CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 HARDSCAPE PLAN

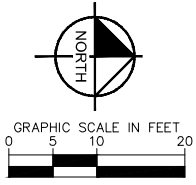
SHEET NO.
L2.00
 CAM 24-1145

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.01 Hardscape Plan July 26, 2022 03:24:18pm K:\WPB_JRC\43184061 - NE 4th Ave FTL\CAD\Plansheets\L2.00 Hardscape Plan.dwg



SEE SHEET L2.00 FOR CONTINUATION

SEE SHEET L2.02 FOR CONTINUATION



NO PROPOSED IMPROVEMENTS, THIS SHEET

Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE:	07/01/2021
DESIGNED BY:	JAS
CHECKED BY:	SHOWN
FIELD BOOK:	

CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

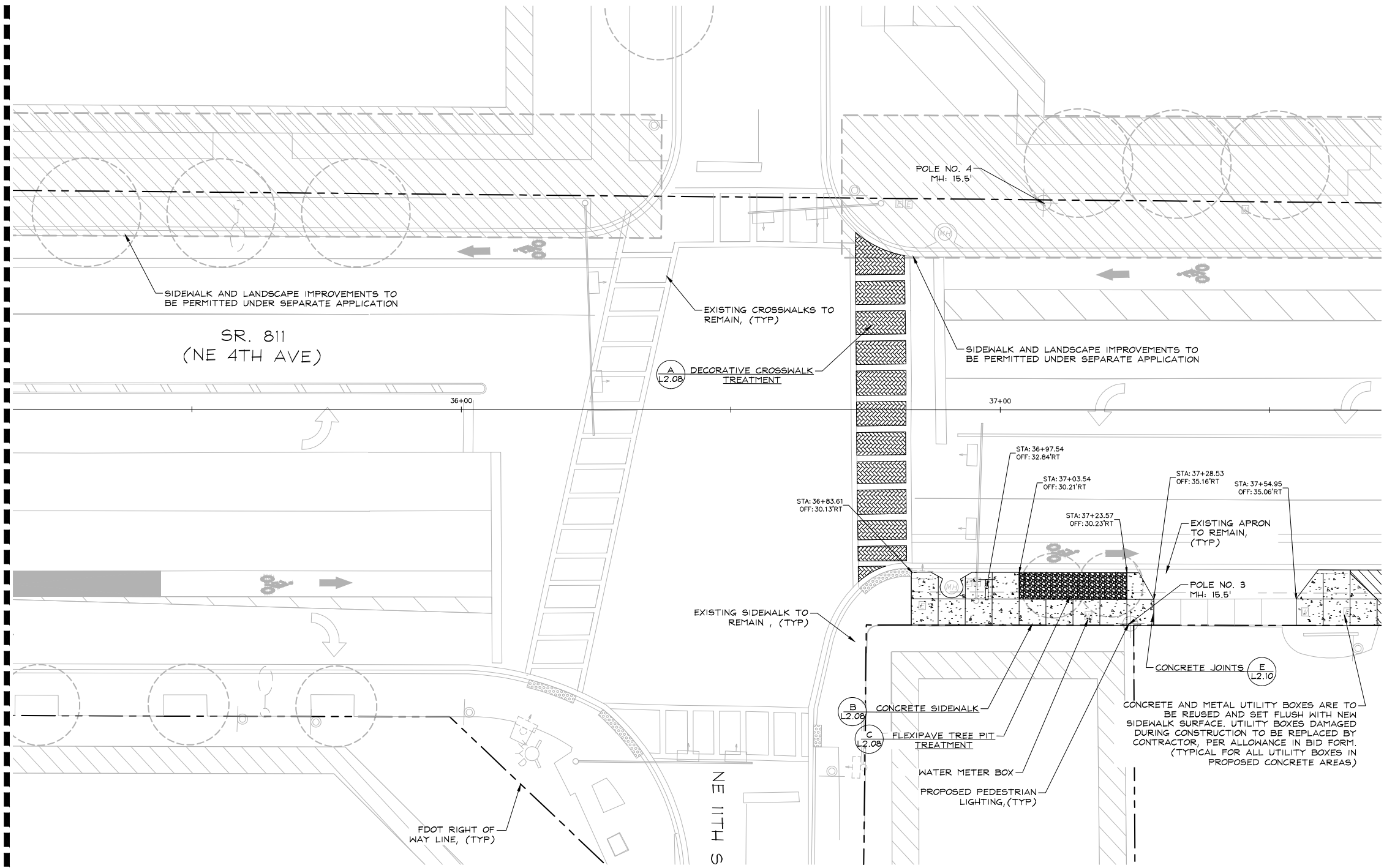
REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 HARDScape PLAN

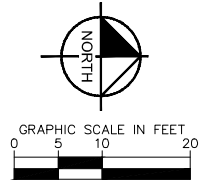
SHEET NO.
L2.01
 CAM 24-1145

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.02 Hardscape Plan July 26, 2022 03:24:20pm K:\WPB_JRG\043184061 - NE 4th Ave FL\CAD\PlanSheets\L2.00 Hardscape Plan .dwg

SEE SHEET L2.01 FOR CONTINUATION




SEE SHEET L2.03 FOR CONTINUATION



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DRAWN BY: AS SHOWN
 DESIGNED BY: AS SHOWN
 CHECKED BY:
 FIELD BOOK:

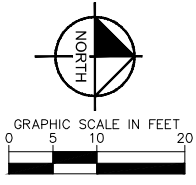
CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETSCAPE PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 HARDSCAPE PLAN

SHEET NO.
L2.02
 CAM 24-1145


Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.03 Hardscape Plan July 26, 2022 03:24:25pm K:\WPB\URG\043184061 - NE 4th Ave FL\CAD\PlanSheets\L2.00 Hardscape Plan .dwg



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

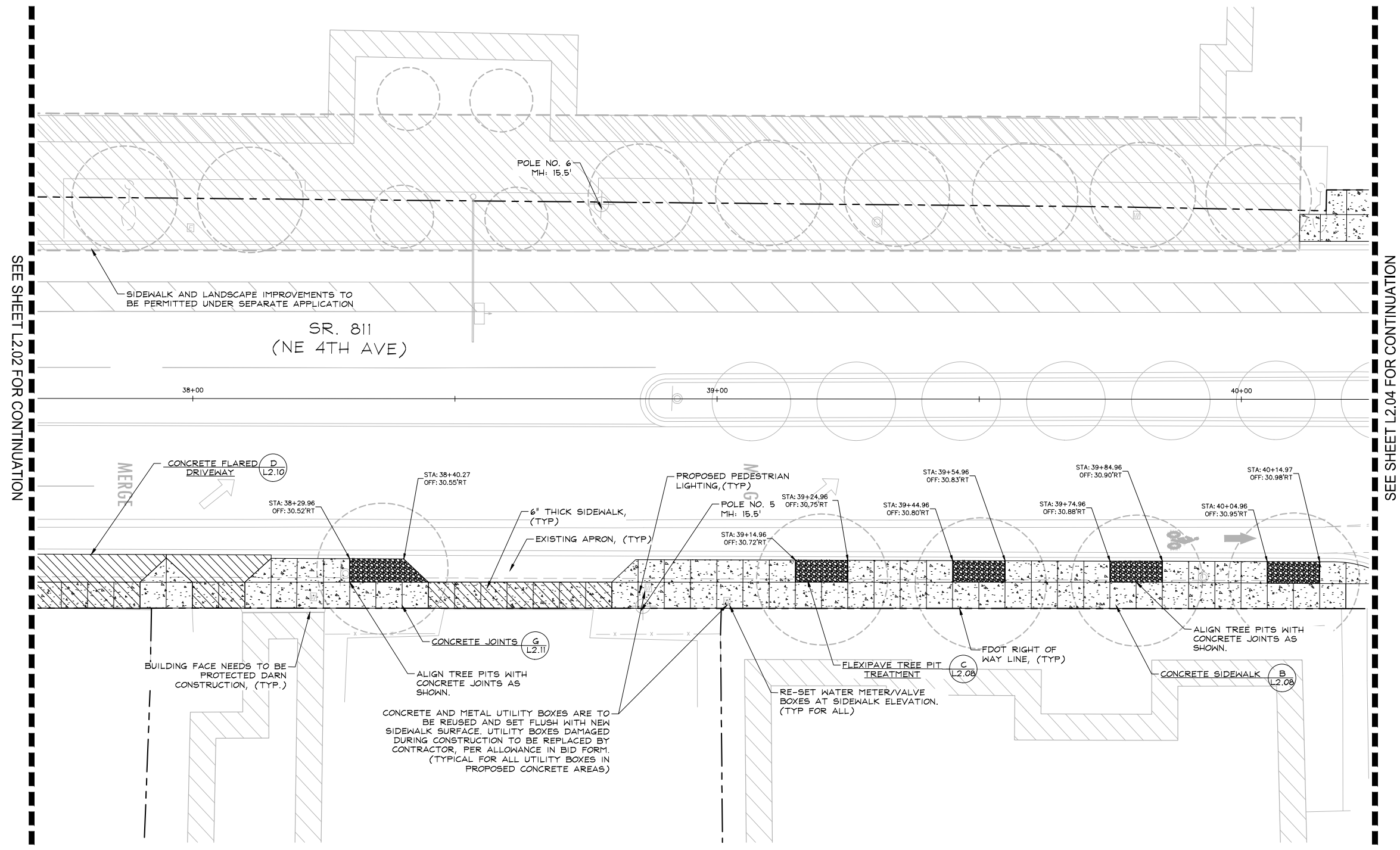
DATE: 07/01/2021
 DRAWN BY: [blank]
 DESIGNED BY: [blank]
 CHECKED BY: [blank]
 SCALE: AS SHOWN
 FIELD BOOK: [blank]

CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY (CHK'D)

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 HARDScape PLAN

SHEET NO.
L2.03
 CAM 24-1145



SEE SHEET L2.02 FOR CONTINUATION

SEE SHEET L2.04 FOR CONTINUATION

CONCRETE AND METAL UTILITY BOXES ARE TO BE REUSED AND SET FLUSH WITH NEW SIDEWALK SURFACE. UTILITY BOXES DAMAGED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR, PER ALLOWANCE IN BID FORM. (TYPICAL FOR ALL UTILITY BOXES IN PROPOSED CONCRETE AREAS)

BUILDING FACE NEEDS TO BE PROTECTED DARN CONSTRUCTION, (TYP.)

ALIGN TREE PITS WITH CONCRETE JOINTS AS SHOWN.

RE-SET WATER METER/VALVE BOXES AT SIDEWALK ELEVATION. (TYP FOR ALL)

ALIGN TREE PITS WITH CONCRETE JOINTS AS SHOWN.

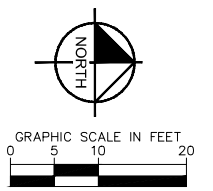
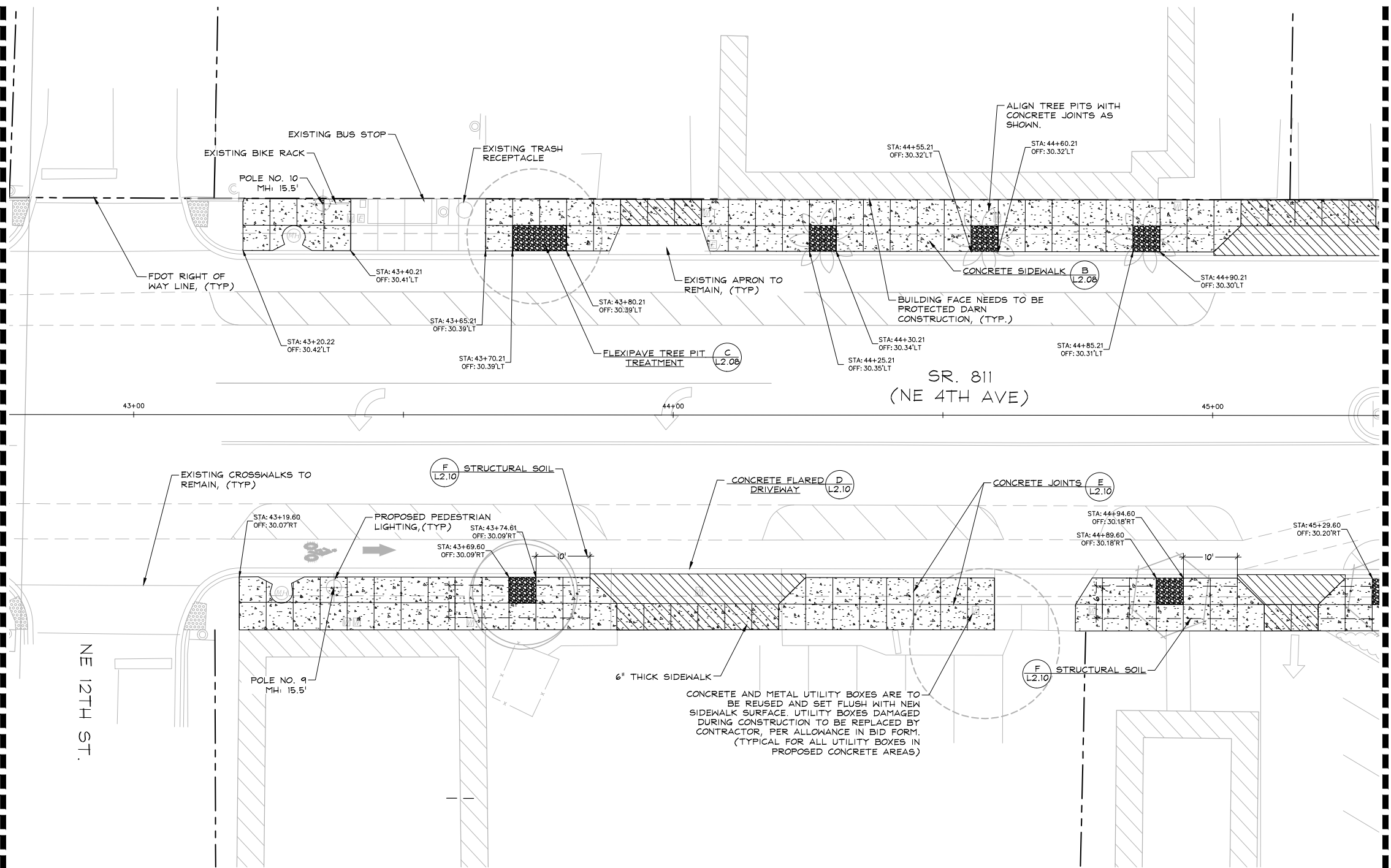
SIDEWALK AND LANDSCAPE IMPROVEMENTS TO BE PERMITTED UNDER SEPARATE APPLICATION

SR. 811
 (NE 4TH AVE)

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.05 Hardscape Plan July 26, 2022 03:24:32pm K:\WPB\URG\043184061 - NE 4th Ave FTL\CAD\Plan\sheet\L2.00 Hardscape Plan .dwg

SEE SHEET L2.04 FOR CONTINUATION


SEE SHEET L2.06 FOR CONTINUATION



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY # 696
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DRAWN BY: [blank]
 DESIGNED BY: JAS
 SCALE: AS SHOWN
 CHECKED BY: [blank]
 FIELD BOOK: [blank]

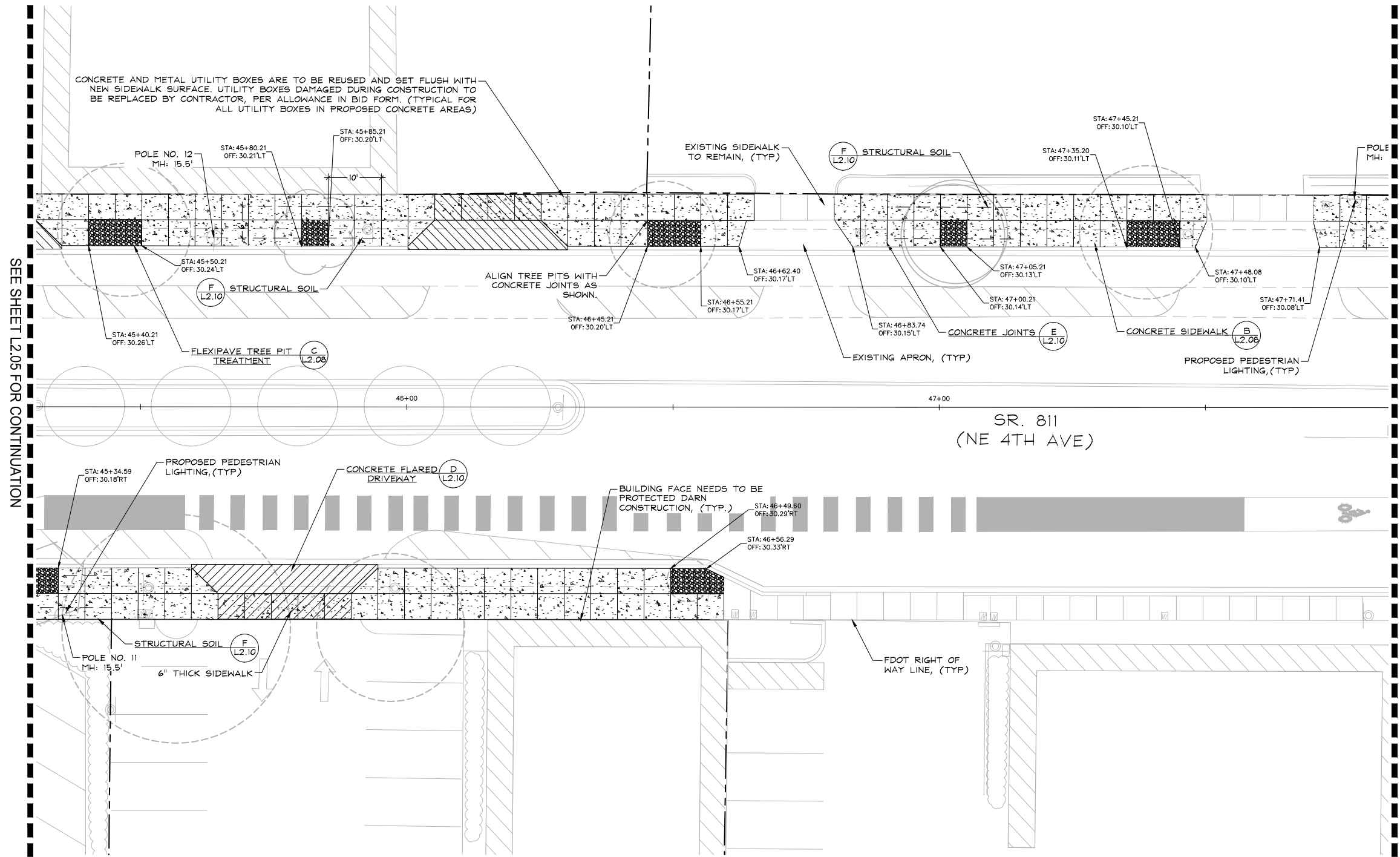
CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

 250 NE 3RD AVE., FORT LAUDERDALE, FL 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 HARDScape PLAN

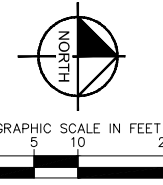
SHEET NO.
L2.05
 CAM 24-1145

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.06 Hardscape Plan July 26, 2022 03:24:35pm K:\WPB\URG\043184061 - NE 4th AVE FTL\CAD\Plan\Sheets\L2.00 Hardscape Plan .dwg



SEE SHEET L2.05 FOR CONTINUATION

SEE SHEET L2.07 FOR CONTINUATION



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY 696
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DRAWN BY:
 DESIGNED BY:
 CHECKED BY:
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

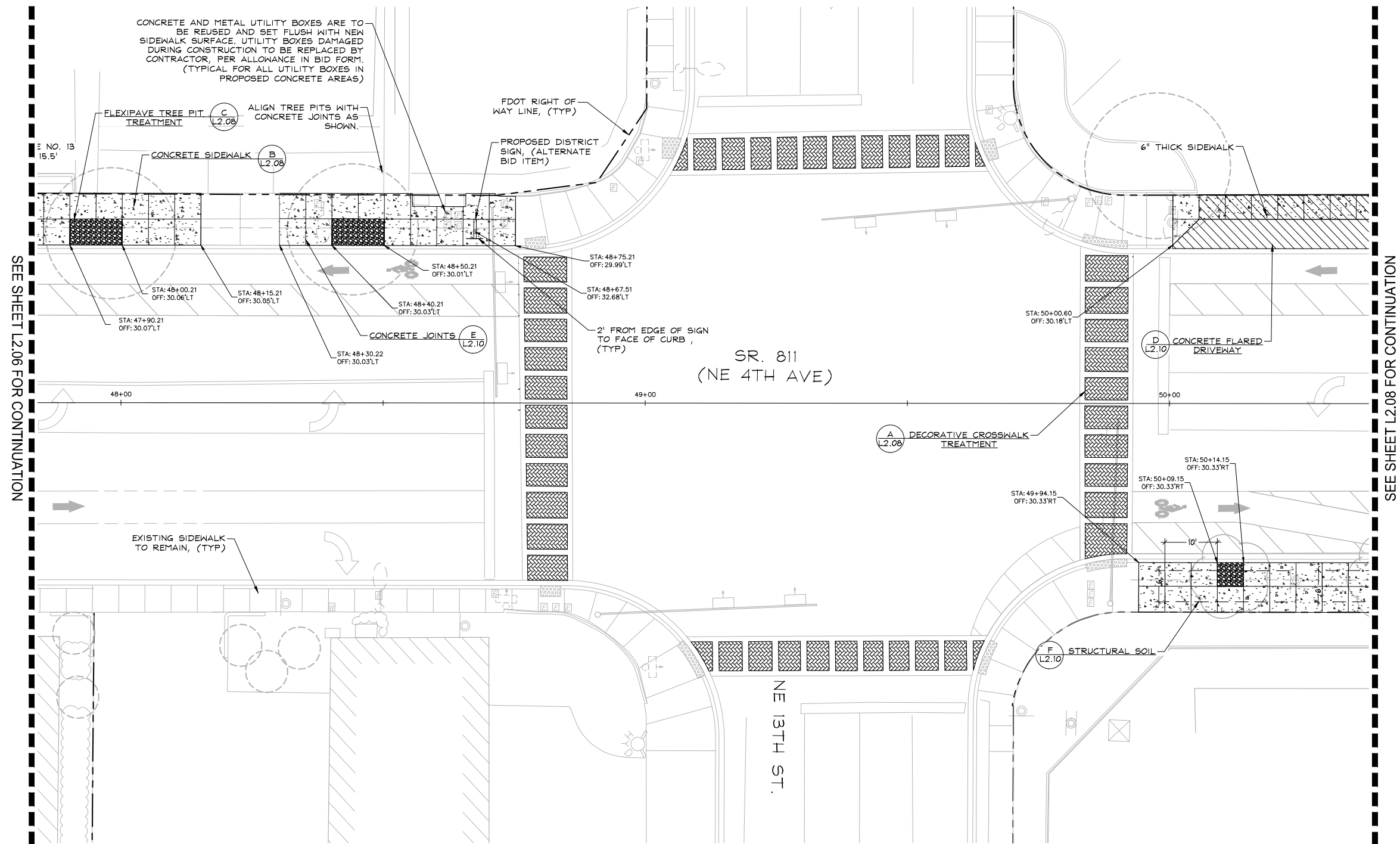
 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 HARDScape PLAN

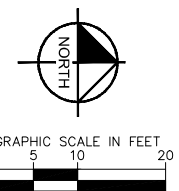
SHEET NO.
L2.06
 CAM 24-1145

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.07 HARDSCAPE PLAN July 26, 2022 03:24:39pm K:\WPB JURG\043184061 - NE 4th AVE FTL\CAD\Plansheets\L2.00 HARDSCAPE PLAN .dwg



SEE SHEET L2.06 FOR CONTINUATION


SEE SHEET L2.08 FOR CONTINUATION



Kimley-Horn
 1920 WERKVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DRAWN BY: JAS
 DESIGNED BY: JAS
 CHECKED BY: JAS
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

 290 NE 3RD AVE, FORT LAUDERDALE, FL 33301

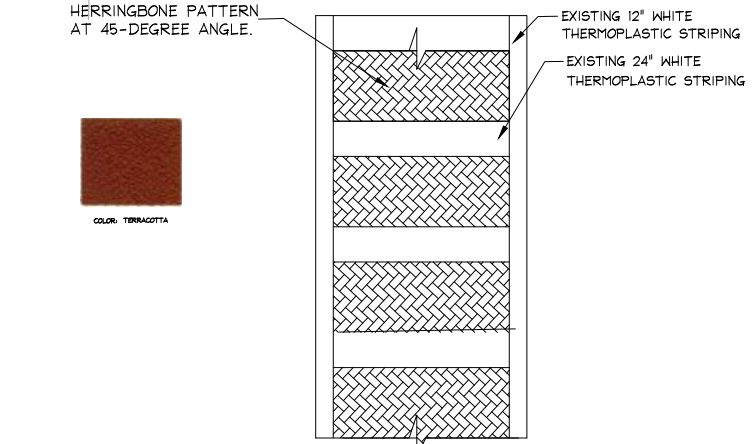
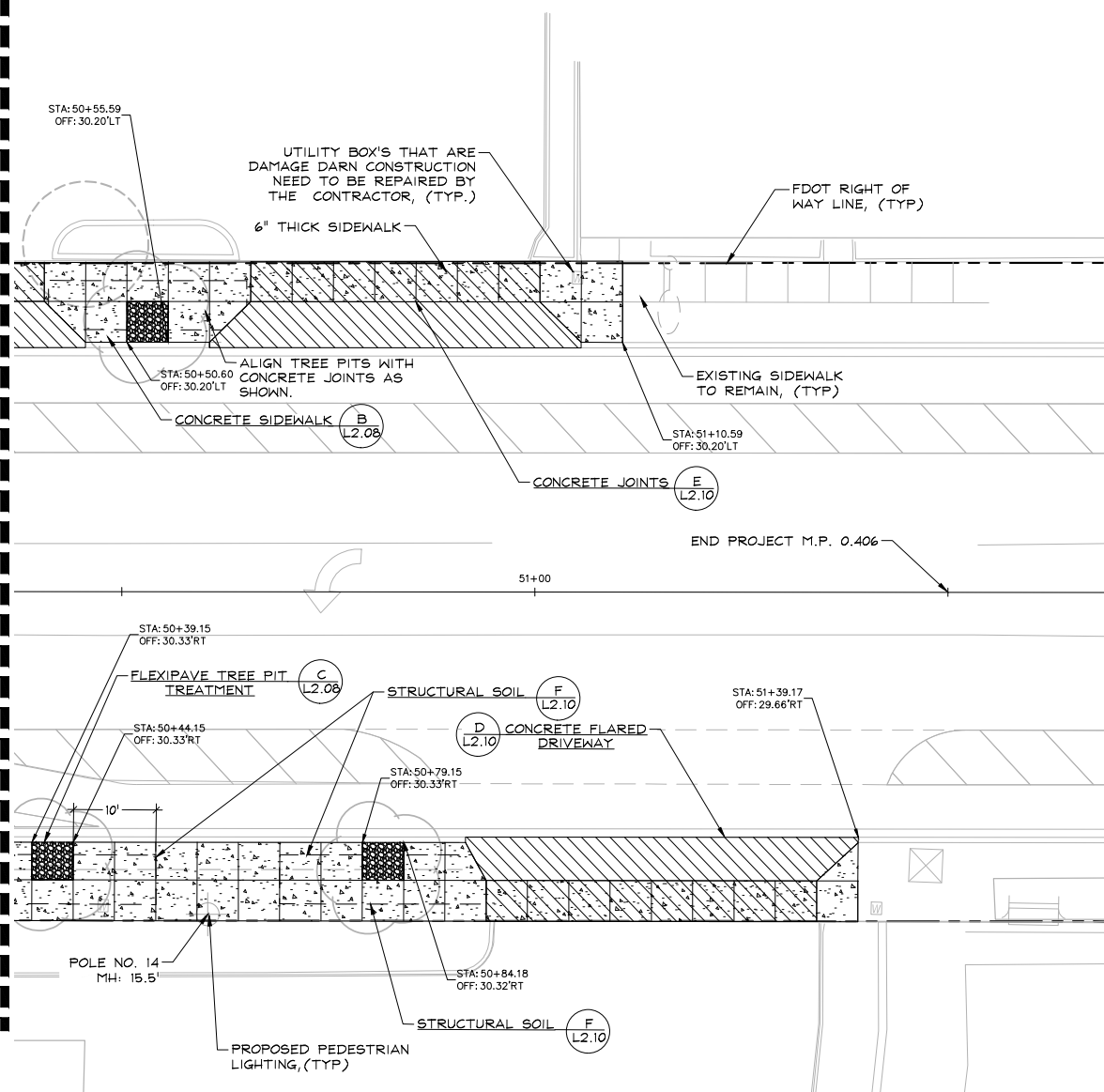
REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 HARDSCAPE PLAN

SHEET NO.
L2.07
 CAM 24-1145

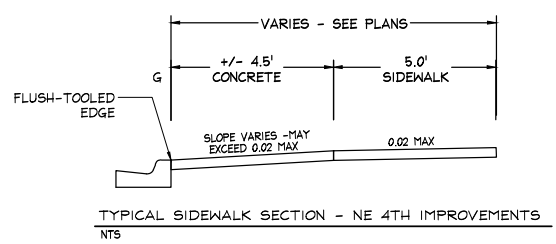
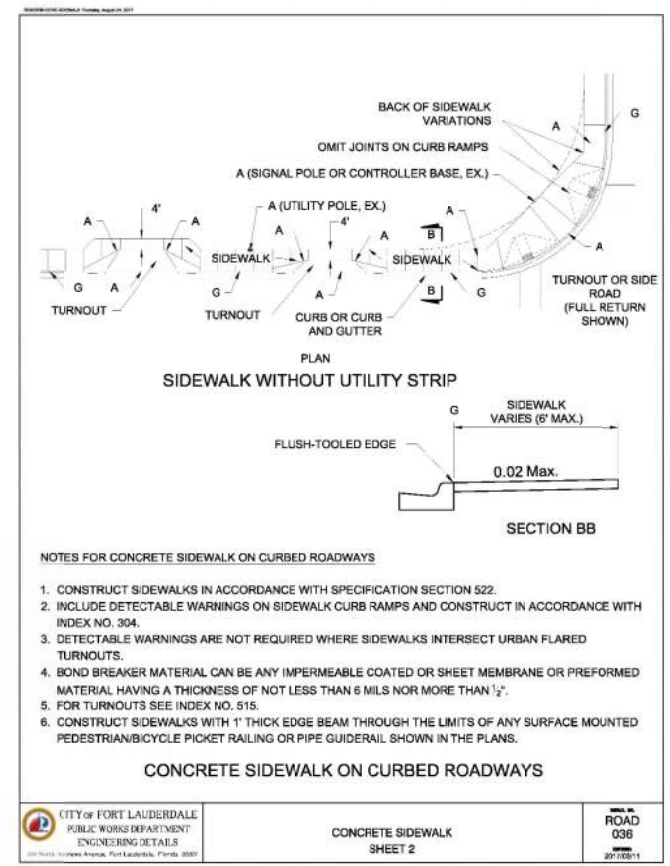
Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.08 Hardscape Plan July 26, 2022 03:24:44pm K:\WPB\JRG\043184061 - NE 4th AVE FL\CAD\Plansheets\L2.08 Hardscape Plan.dwg

SEE SHEET L2.07 FOR CONTINUATION



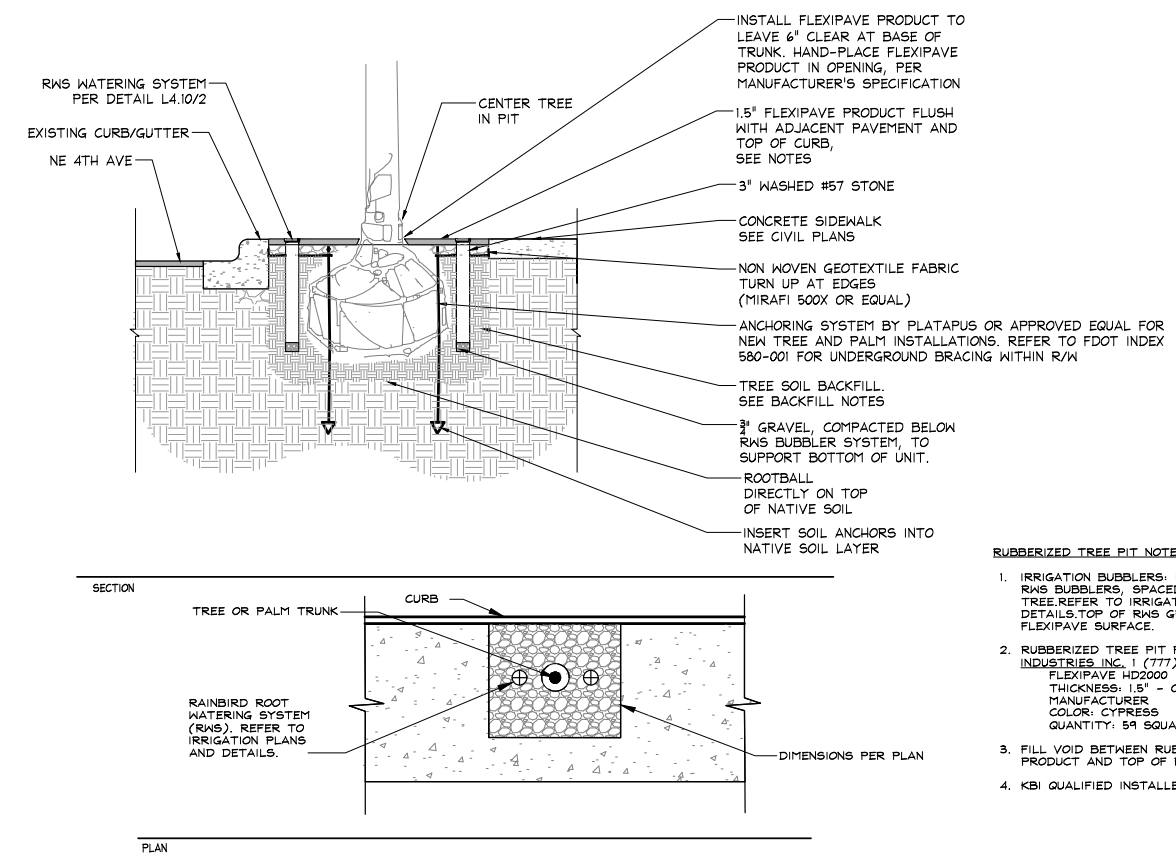
A DECORATIVE CROSSWALK TREATMENT

NTS



B CONCRETE SIDEWALK ON CURBED ROADWAYS

NTS



- RUBBERIZED TREE PIT NOTES:**
- IRRIGATION BUBBLERS: INSTALL TWO (2) 4" ROUND RWS BUBBLERS, SPACED EQUALLY AROUND THE TREE. REFER TO IRRIGATION PLANS AND DETAILS. TOP OF RWS GRATE TO BE FLUSH WITH FLEXIPAVE SURFACE.
 - RUBBERIZED TREE PIT PRODUCT BY KBI INDUSTRIES, INC. 1 (777) 723-9300
FLEXIPAVE HD2000
THICKNESS: 1.5" - OR AS REQUIRED BY MANUFACTURER
COLOR: CYPRESS
QUANTITY: 59 SQUARE PITS (5'x5')
 - FILL VOID BETWEEN RUBBERIZED TREE PIT PRODUCT AND TOP OF ROOT BALL PER DETAIL.
 - KBI QUALIFIED INSTALLER.

C FLEXIPAVE TREE PIT TREATMENT

NTS

Kimley-Horn
1920 WEKIVA WAY #200
WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX:
561-330-2245
WWW.KIMLEY-HORN.COM
REGISTRY 696
© 2022 KIMLEY-HORN AND
ASSOCIATES, INC.

SEAL
JONATHAN D. HAIGH, PLA
STATE LICENSE NUMBER
LA #6666795
07/26/2022

DATE: 07/01/2021
DRAWN BY: JAS
DESIGNED BY: JAS
CHECKED BY: JAS
FIELD BOOK:

CITY OF FORT LAUDERDALE
TRANSPORTATION & MOBILITY
250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
NE 4TH AVENUE STREETScape PROJECT
E SUNRISE BLVD TO NE 13TH ST
FORT LAUDERDALE, FL
HARDScape PLAN

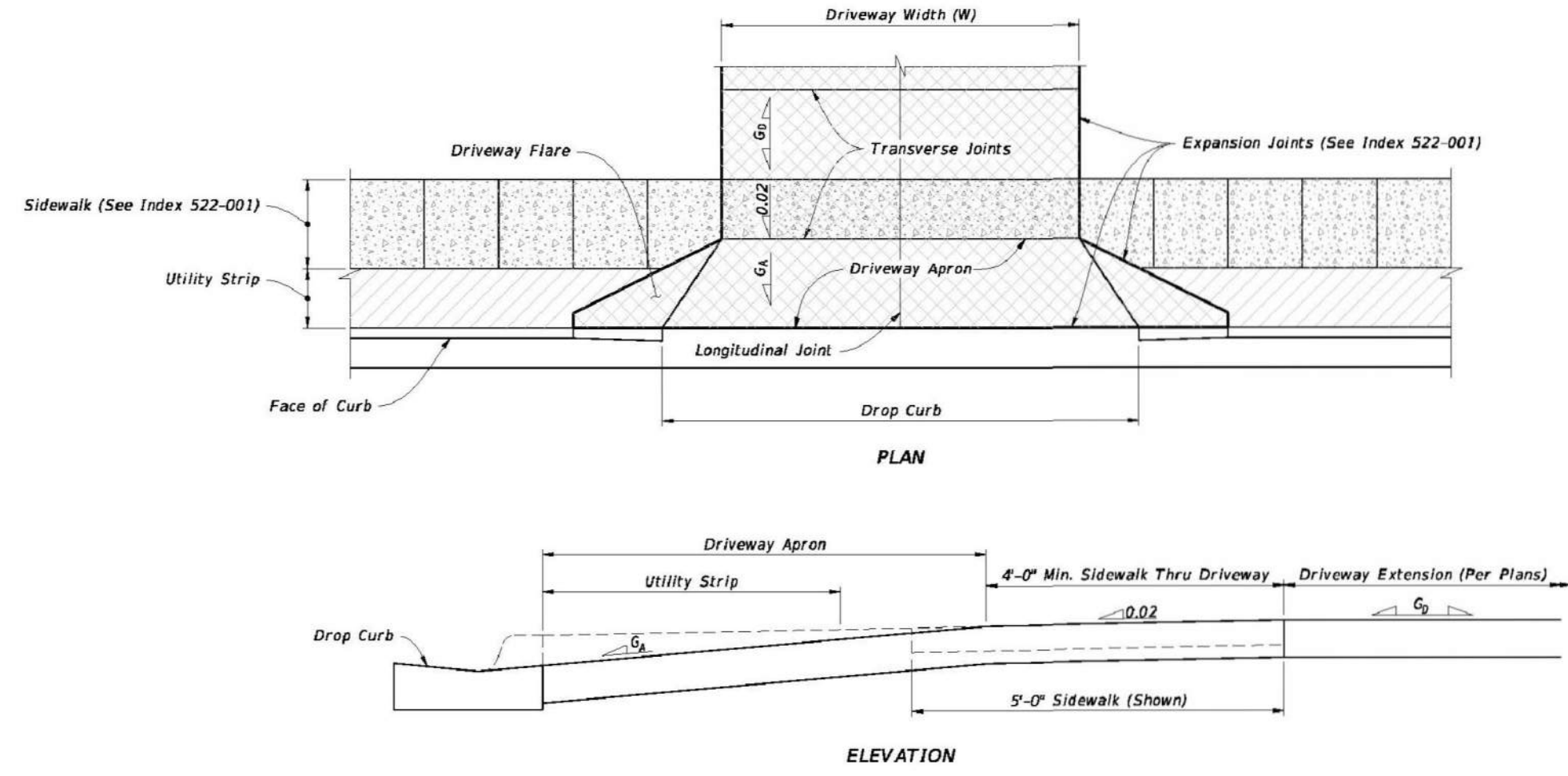
SHEET NO.
L2.08
CAM 24-1145

GENERAL NOTES:

1. Work this Index with Specification 522.
2. Refer to Index 520-001 for drop curb details and Index 522-001 for joints between driveway, sidewalks, and curb.
3. Existing Curb and Gutter: Remove existing curb and gutter to either the nearest Joint beyond the flared point or to where no remaining section is less than 5 feet long.
4. Grades and cross slopes shown are maximums.
5. Longitudinal Joints: Construct 1/2" open joints placed at equal (20 max.) intervals for driveways over 20' wide. Match joints in curb and gutter to match joints in driveways.
6. Transverse Joints: Construct 1/2" open joints @ 10' Centers and 1/2" expansion joints with preformed joint filler every 5th joint.
7. Construct driveways (6" thick concrete) to a uniform width (W) to the R/W line or the extent shown in the Plans.
8. Width of Sidewalk Thru Driveway is 4'-0" minimum. Match sidewalk width when shown in Plans or when utility strip width is equal to or greater than the depth of the Driveway Apron.
9. Alpha-Numeric Identification: Concrete Flared Driveway Alpha-Numeric Identifications (e.g. C4) are provided for reference purposes in the Plans.

LEGEND:

- Sidewalk
- Flared Driveway (6" Thick Concrete)
- Sidewalk Thru Driveway (6" Thick Concrete)
- Utility Strip
- G_A Grade of Apron
- G_D Grade of Driveway (Per Plans)

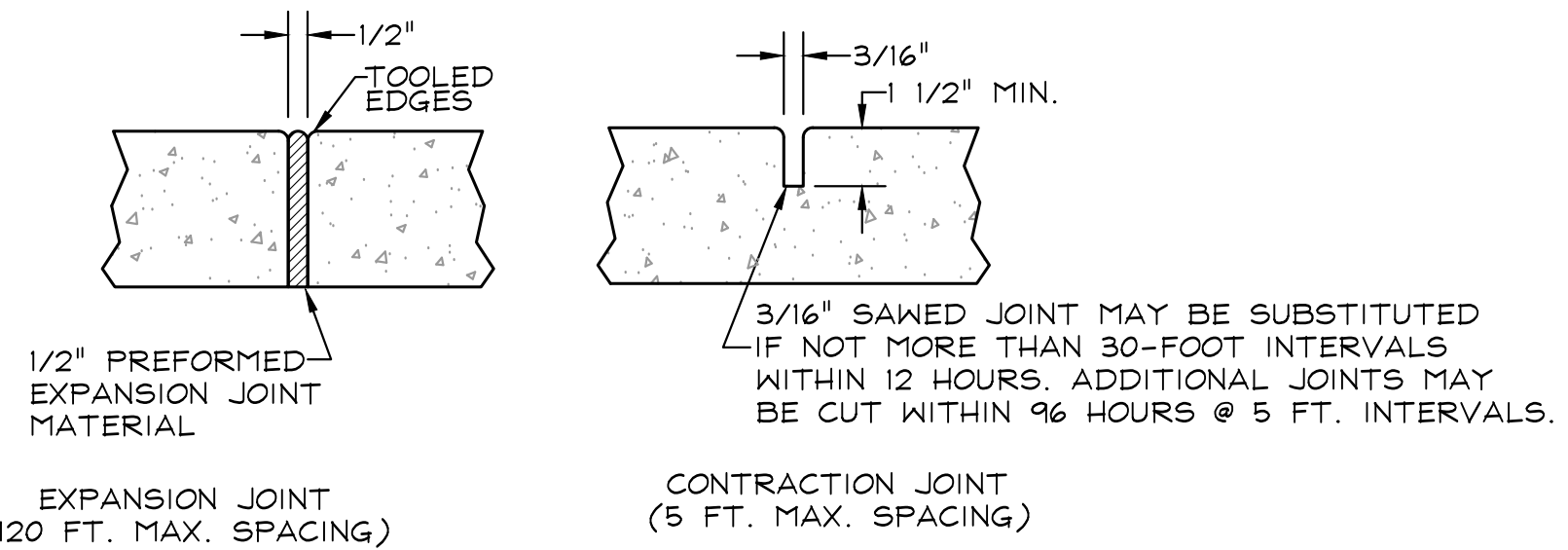


CONCRETE FLARED DRIVEWAY NOMENCLATURE

LAST REVISION 11/01/18	DESCRIPTION	FDOT FY 2021-22 STANDARD PLANS	INDEX 522-003	SHEET 1 of 4
---------------------------	-------------	--------------------------------------	------------------	-----------------

D CONCRETE FLARED DRIVEWAY

NTS

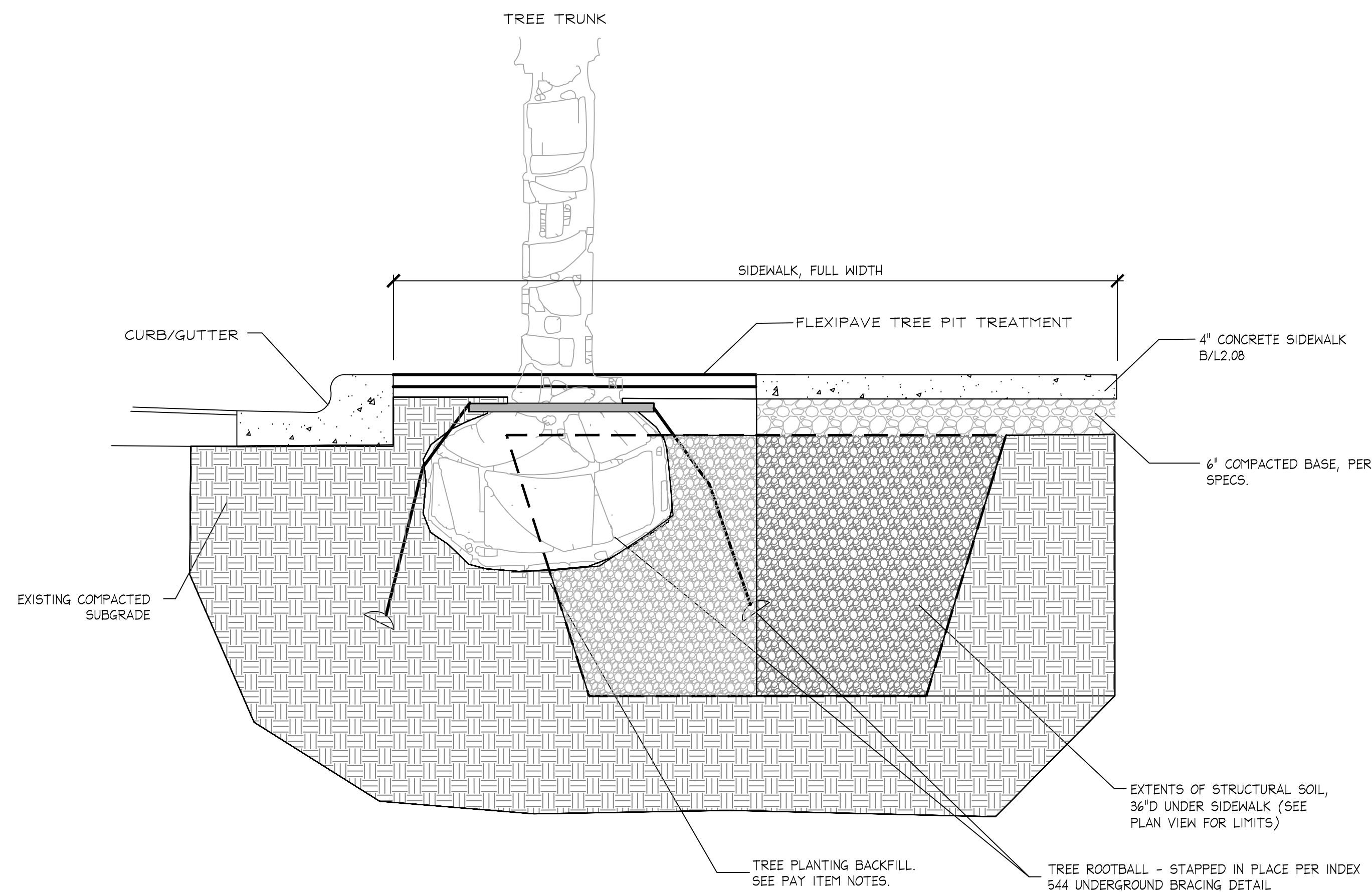


NOTES:

1. PROVIDE EXPANSION JOINTS BETWEEN NEW SIDEWALK AND EXISTING SIDEWALK, CURB, OR AT ANY OTHER RIGID STRUCTURE. EXPANSION JOINTS ALONG SIDEWALK SHALL BE PROVIDED AT 120' FT. MAXIMUM SPACING.
2. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3,000 P.S.I. @ 28 DAYS.
3. MINIMUM THICKNESS OF SIDEWALK SHALL BE AS SHOWN BELOW (WITH THICKENED EDGE AS SHOWN).
4. FOR SIDEWALKS WITH ANY VEHICULAR TRAFFIC, COMPACT SUBGRADE TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM1557. FOR SIDEWALKS WITH ONLY PEDESTRIAN TRAFFIC, COMPACTION MAY BE 95% OF MAXIMUM DENSITY.
5. TOOLED CONTRACTION JOINT SHALL BE PROVIDED AT 5 FT. MAXIMUM SPACING. SAWED CONTRACTION JOINT MAY BE SUBSTITUTED IF CUT AT NO MORE THAN 30 FT. INTERVALS WITHIN 12 HOURS AFTER CONCRETE HAS SET. ADDITIONAL CUTS @ 5 FT. INTERVALS MUST BE CUT WITHIN 96 HOURS.

E CONCRETE JOINTS

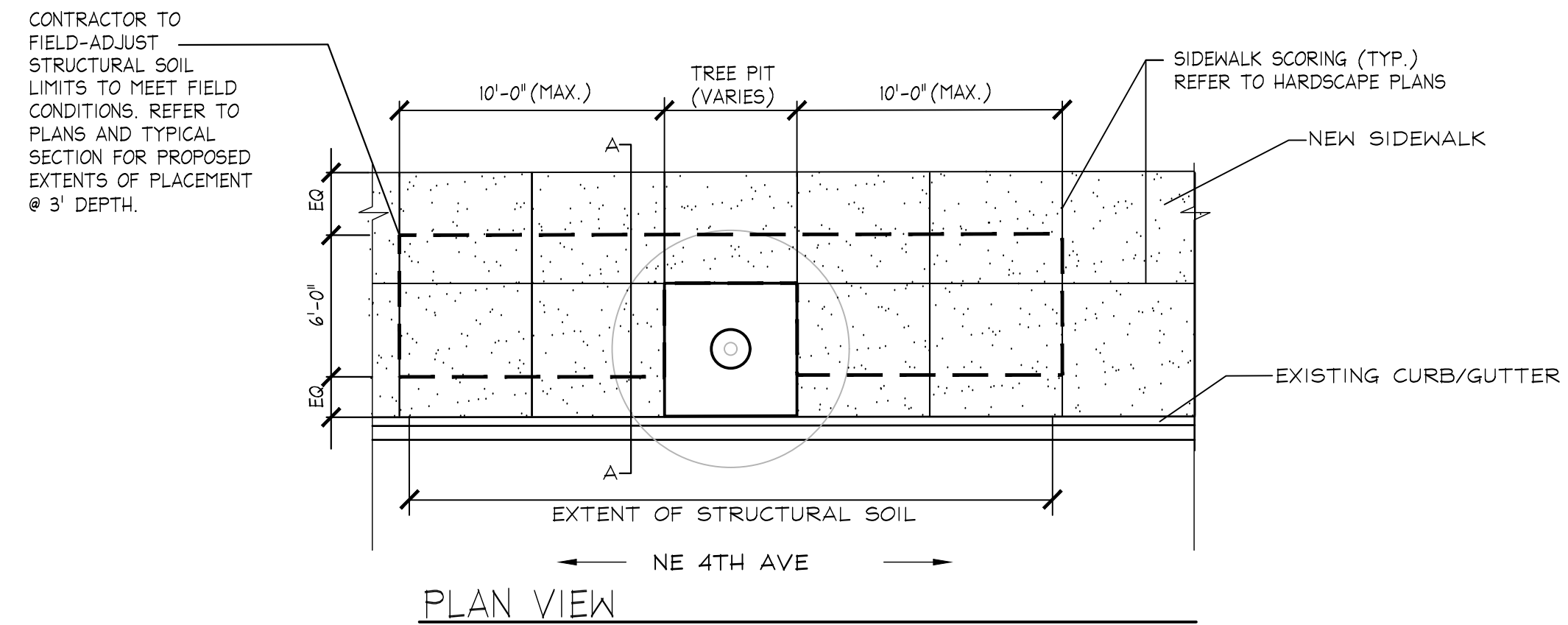
NTS



SECTION A

F STRUCTURAL SOIL - TREE PLANTERS ONLY

NTS

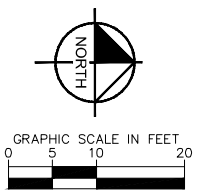
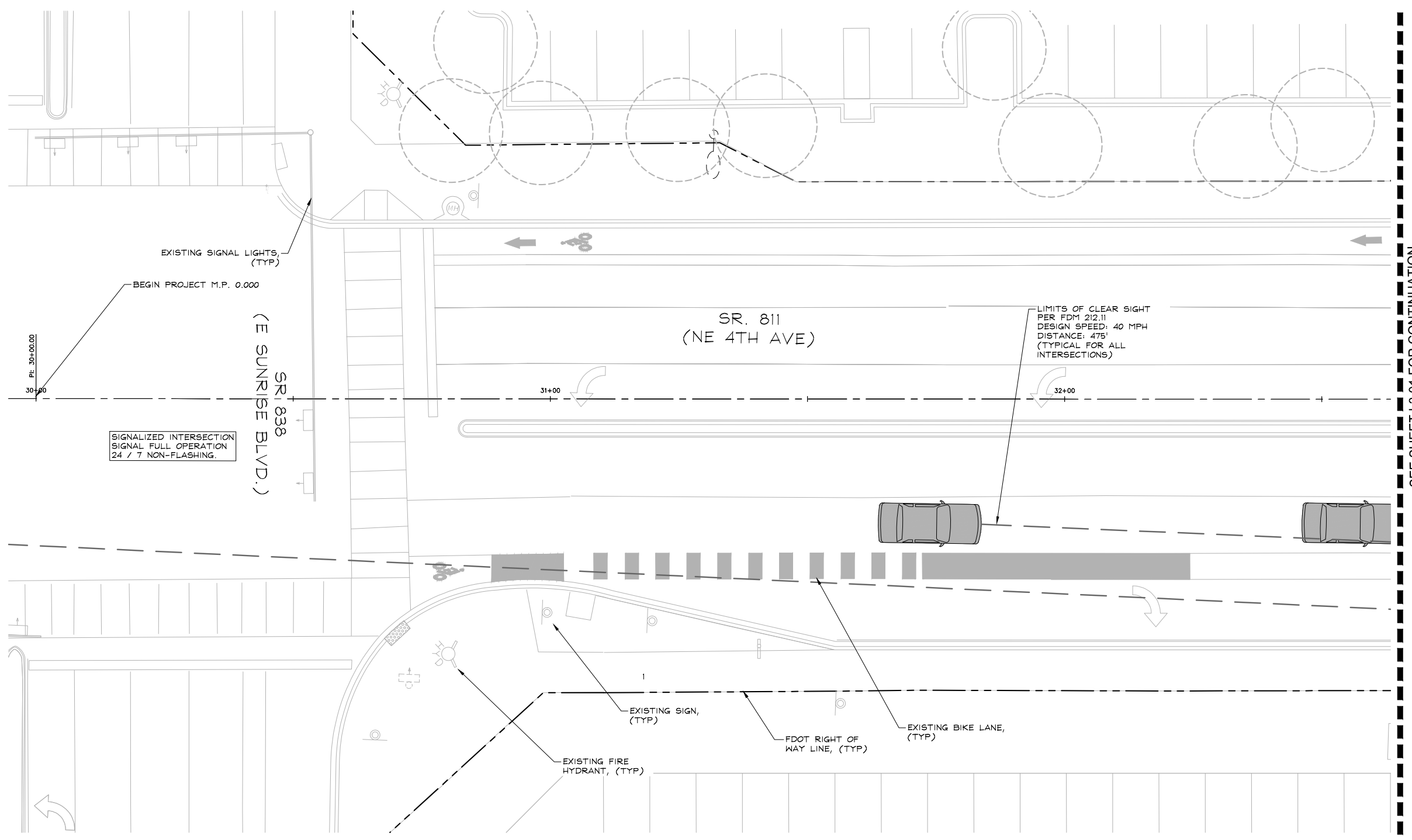


CU-STRUCTURAL SOIL MIX:

1. 80% CLEAN STONE AND 20% CLAY LOAM AND 0.3% HYDROGEL MIX.
 - 1.1. CLEAN STONE SHALL BE GRANITE GRADED 3/4"-1-1/2", HIGHLY ANGULAR WITH NO FINES.
 - 1.2. CLAY LOAM SHALL CONSIST OF 65% GRAVEL, 25%-30% SAND, 20%-40% SILT, AND 25%-40% CLAY, 2%-5% ORGANIC MATTER.
 - 1.3. HYDROGEL ACTS AS A TACKIFIER SO SOIL WILL STICK TO STONE.
2. MIX THE HYDROGEL AND CLEAN STONE FIRST, THEN MIX IN THE CLAY LOAM MIX.
3. INSTALL STRUCTURAL SOIL IN 6" LIFTS, COMPACTING EACH TO 95% STANDARD PROCTOR.
4. SUBMIT PRODUCT DATA AND SAMPLES FOR APPROVAL.

NO.	DATE	BY	CHK'D	DESCRIPTION

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.00 LANDSCAPE PLAN July 26, 2022 03:25:53pm K:\WPB_LUR\043184061 - NE 4th Ave FL\CAD\Plansheets\L3.00 LANDSCAPE PLAN.dwg



Kimley-Horn
1920 WEKIVA WAY #200
WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX:
561-330-2245
WWW.KIMLEY-HORN.COM
REGISTRY 696
© 2022 KIMLEY-HORN AND
ASSOCIATES, INC.

SEAL
JONATHAN D. HAIGH, PLA
STATE LICENSE NUMBER
LA #6666795
07/26/2022

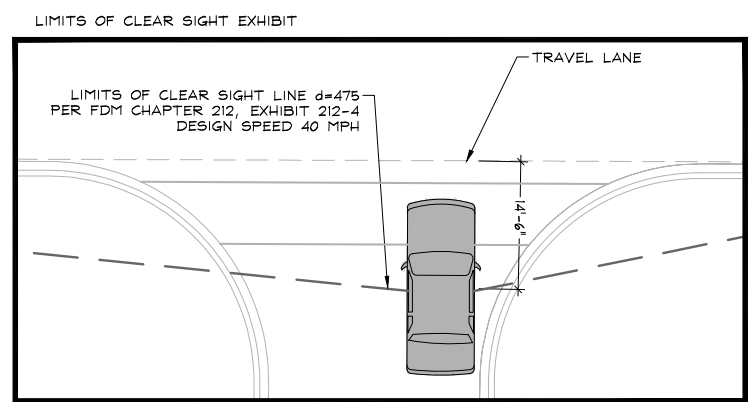
DATE: 07/01/2021
DRAWN BY: AS SHOWN
DESIGNED BY: AS SHOWN
CHECKED BY:
FIELD BOOK:

CITY OF FORT LAUDERDALE
TRANSPORTATION & MOBILITY
250 NE 3RD AVE. FORT LAUDERDALE, FL 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
NE 4TH AVENUE STREETSCAPE PROJECT
E SUNRISE BLVD TO NE 13TH ST
FORT LAUDERDALE, FL
LANDSCAPE PLAN

SHEET NO.
L3.00
CAM 24-1145



NOTE:
ALL LIMITS OF CLEAR SIGHT ORIGIN AT 14.5' BEHIND THE
TRAVEL LANE PER FDOT DESIGN MANUAL SEC: 212.11

NO PROPOSED IMPROVEMENTS, THIS SHEET

NOTE: EXISTING SHRUB AND GROUND COVER PLANTINGS LOCATED WITHIN CLEAR SIGHT LIMIT INDICATED TO REMAIN SHALL BE TRIMMED 12" FROM BACK OF CURB AND MAINTAINED HEIGHT NOT TO EXCEED 18". ALL TREES AND PALMS TO BE MAINTAINED WITH 8' OF CLEAR TRUNK.

NOTE: THE FDOT REQUIRES A 14.5' VERTICAL CLEARANCE ABOVE ROADWAYS AND ALSO REQUIRES AN 8.5' VERTICAL CLEARANCE ABOVE WALKWAYS.

NOTE: SECTION 7-1.4: COMPLIANCE WITH FEDERAL ENDANGERED SPECIES ACT AND OTHER WILDLIFE REGULATIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MANUAL SHOULD BE ADHERED TO FOR WILDLIFE INVOLVEMENT DURING CONSTRUCTION.

PLANT SCHEDULE

TREES	COMMON NAME
LA	Muskegee Grape Myrtle 8' CT, Standard
LD	Natchez Grape Myrtle 8' CT, Standard
QV	High Rise Live Oak 8' CT
VA	Montgomery Palm Single Trunk, 10' GW MIN.

VERTICAL DATUM
ELEVATIONS SHOWN HEREON ARE BASED ON THE
NORTH AMERICAN VERTICAL DATUM OF 1988.
NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

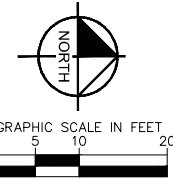
CALL 2 WORKING DAYS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.01 LANDSCAPE PLAN July 26, 2022 03:26:03pm K:\WPB_LURC\43184061 - NE 4th Ave FL\CAD\Plansheets\L3.00 LANDSCAPE PLAN.dwg



Kimley-Horn
 1920 WERKVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DRAWN BY: AS SHOWN
 DESIGNED BY: AS SHOWN
 CHECKED BY:
 FIELD BOOK:

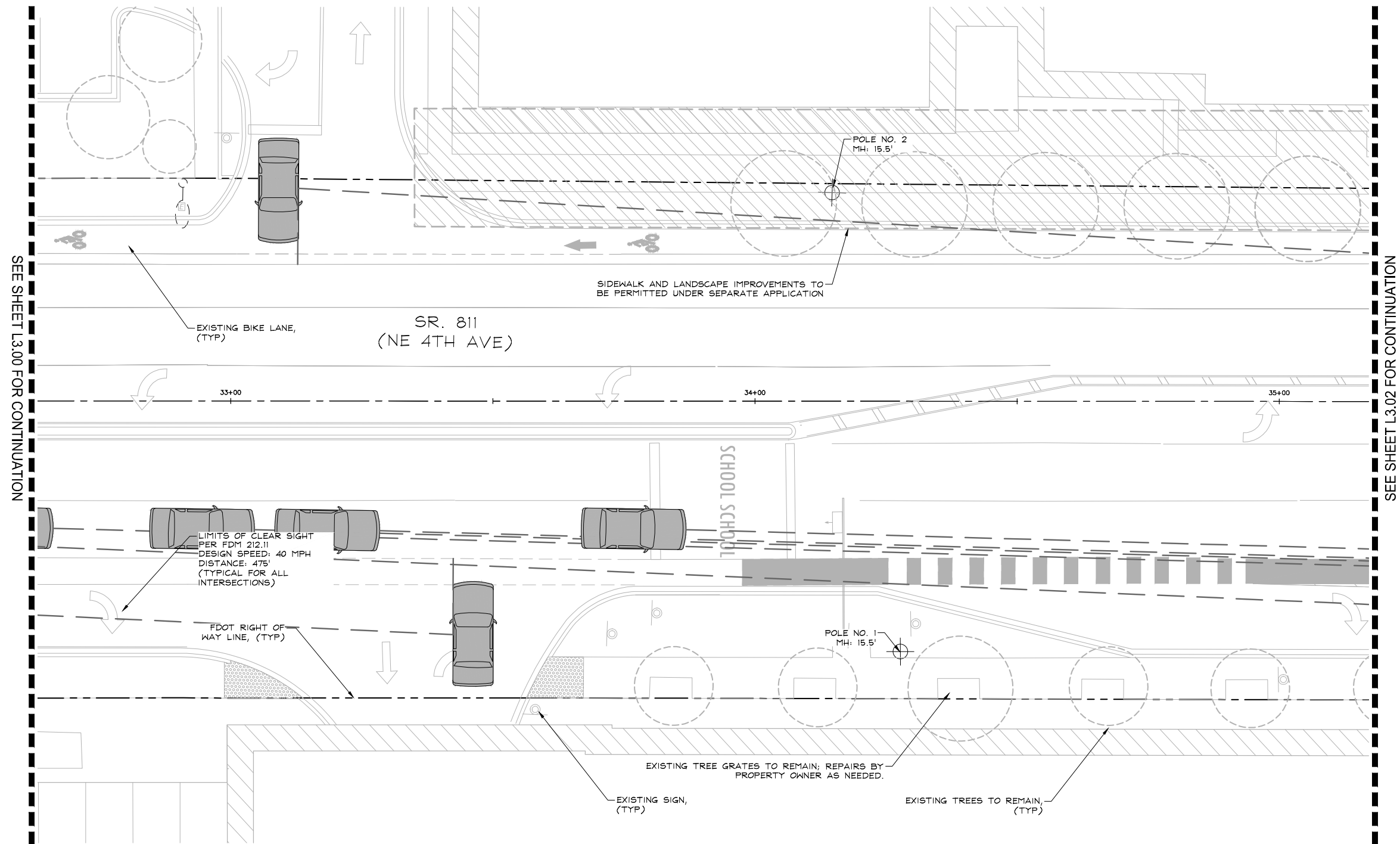
CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

 250 NE 3RD AVE. FORT LAUDERDALE, FL 33301

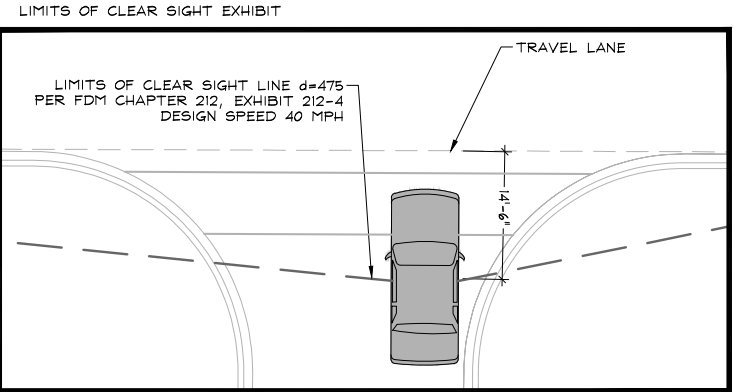
REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETSCAPE PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 LANDSCAPE PLAN

SHEET NO.
L3.01
 CAM 24-1145



NO PROPOSED IMPROVEMENTS, THIS SHEET



NOTE:
 ALL LIMITS OF CLEAR SIGHT ORIGIN AT 14.5' BEHIND THE TRAVEL LANE PER FDOT DESIGN MANUAL SEC: 212.11

NOTE: EXISTING SHRUB AND GROUND COVER PLANTINGS LOCATED WITHIN CLEAR SIGHT LIMIT INDICATED TO REMAIN SHALL BE TRIMMED 12" FROM BACK OF CURB AND MAINTAINED HEIGHT NOT TO EXCEED 18". ALL TREES AND PALMS TO BE MAINTAINED WITH 8' OF CLEAR TRUNK.

NOTE: THE FDOT REQUIRES A 14.5' VERTICAL CLEARANCE ABOVE ROADWAYS AND ALSO REQUIRES AN 8.5' VERTICAL CLEARANCE ABOVE WALKWAYS.

NOTE: SECTION 7-1.4: COMPLIANCE WITH FEDERAL ENDANGERED SPECIES ACT AND OTHER WILDLIFE REGULATIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MANUAL SHOULD BE ADHERED TO FOR WILDLIFE INVOLVEMENT DURING CONSTRUCTION.

PLANT SCHEDULE

TREES	COMMON NAME
LA	Muskogee Grape Myrtle 8' CT, Standard
LD	Natchez Grape Myrtle 8' CT, Standard
QV	High Rise Live Oak 8' CT
VA	Montgomery Palm Single Trunk, 10' GW MIN.

VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

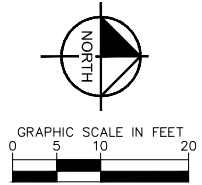
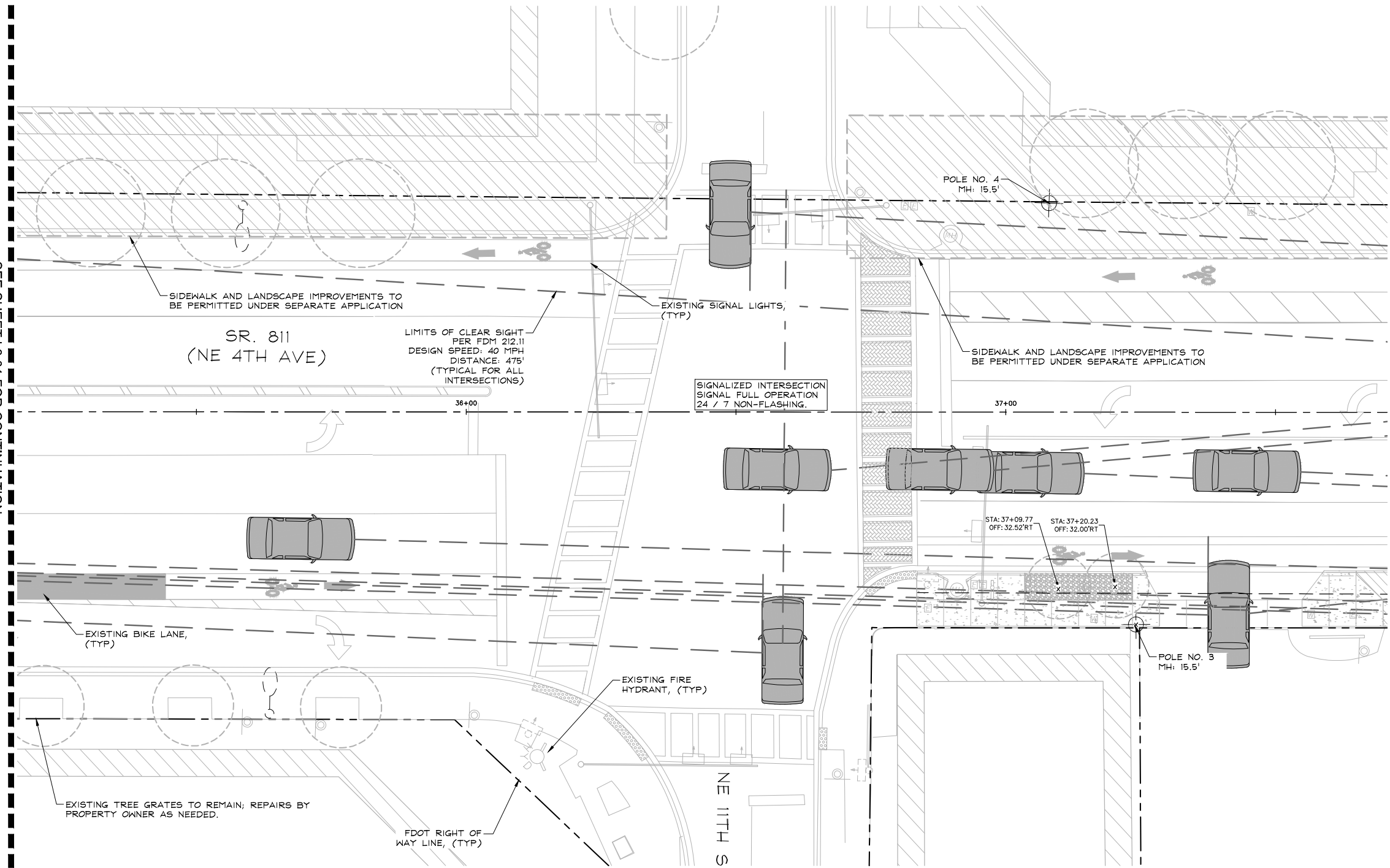
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG

 IT'S THE LAW!
 DIAL 811
 Know what's below.
 Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.02 LANDSCAPE PLAN July 26, 2022 03:26:13pm K:\WPB_LURC\43184061 - NE 4th Ave FL\CAD\Plansheets\L3.00 LANDSCAPE PLAN.dwg


SEE SHEET L3.01 FOR CONTINUATION



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

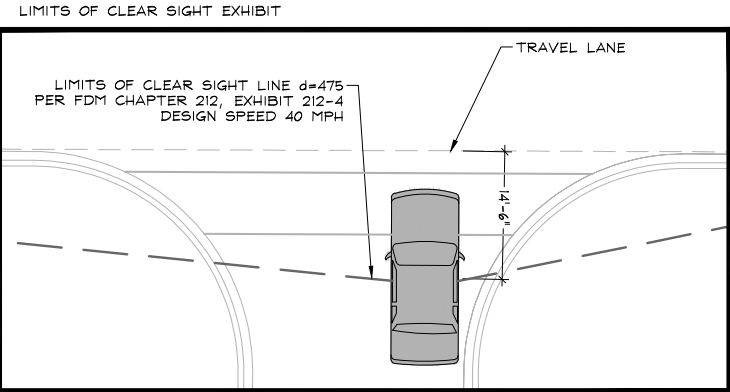
DATE: 07/01/2021
 DESIGNED BY: JAS
 CHECKED BY: SHOWN
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETSCAPE PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 LANDSCAPE PLAN

SHEET NO.
L3.02
 CAM 24-1145



NOTE:
 ALL LIMITS OF CLEAR SIGHT ORIGIN AT 14.5' BEHIND THE
 TRAVEL LANE PER FDOT DESIGN MANUAL SEC: 212.11

NOTE: EXISTING SHRUB AND GROUND COVER PLANTINGS LOCATED WITHIN CLEAR SIGHT LIMIT INDICATED TO REMAIN SHALL BE TRIMMED 12" FROM BACK OF CURB AND MAINTAINED HEIGHT NOT TO EXCEED 18". ALL TREES AND PALMS TO BE MAINTAINED WITH 8' OF CLEAR TRUNK.

NOTE: THE FDOT REQUIRES A 14.5' VERTICAL CLEARANCE ABOVE ROADWAYS AND ALSO REQUIRES AN 8.5' VERTICAL CLEARANCE ABOVE WALKWAYS.

NOTE: SECTION 7-1.4: COMPLIANCE WITH FEDERAL ENDANGERED SPECIES ACT AND OTHER WILDLIFE REGULATIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MANUAL SHOULD BE ADHERED TO FOR WILDLIFE INVOLVEMENT DURING CONSTRUCTION.

PLANT SCHEDULE

TREES	COMMON NAME
LA	Muskegee Grape Myrtle 8' CT, Standard
LD	Natchez Grape Myrtle 8' CT, Standard
QV	High Rise Live Oak 8' CT
VA	Montgomery Palm Single Trunk, 10' GW MIN.

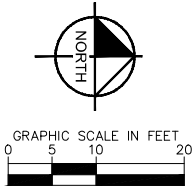
VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE
 NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG

 IT'S THE LAW!
 DIAL 811
 Know what's below.
 Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.03 LANDSCAPE PLAN July 26, 2022 03:26:23pm K:\WPB_LUR\043184061 - NE 4th Ave FL\CAD\Plansheets\L3.00 LANDSCAPE PLAN.dwg



Kimley-Horn
 1920 WERKVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY 696
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DESIGNED BY: JAS
 CHECKED BY: SHOWN
 FIELD BOOK:

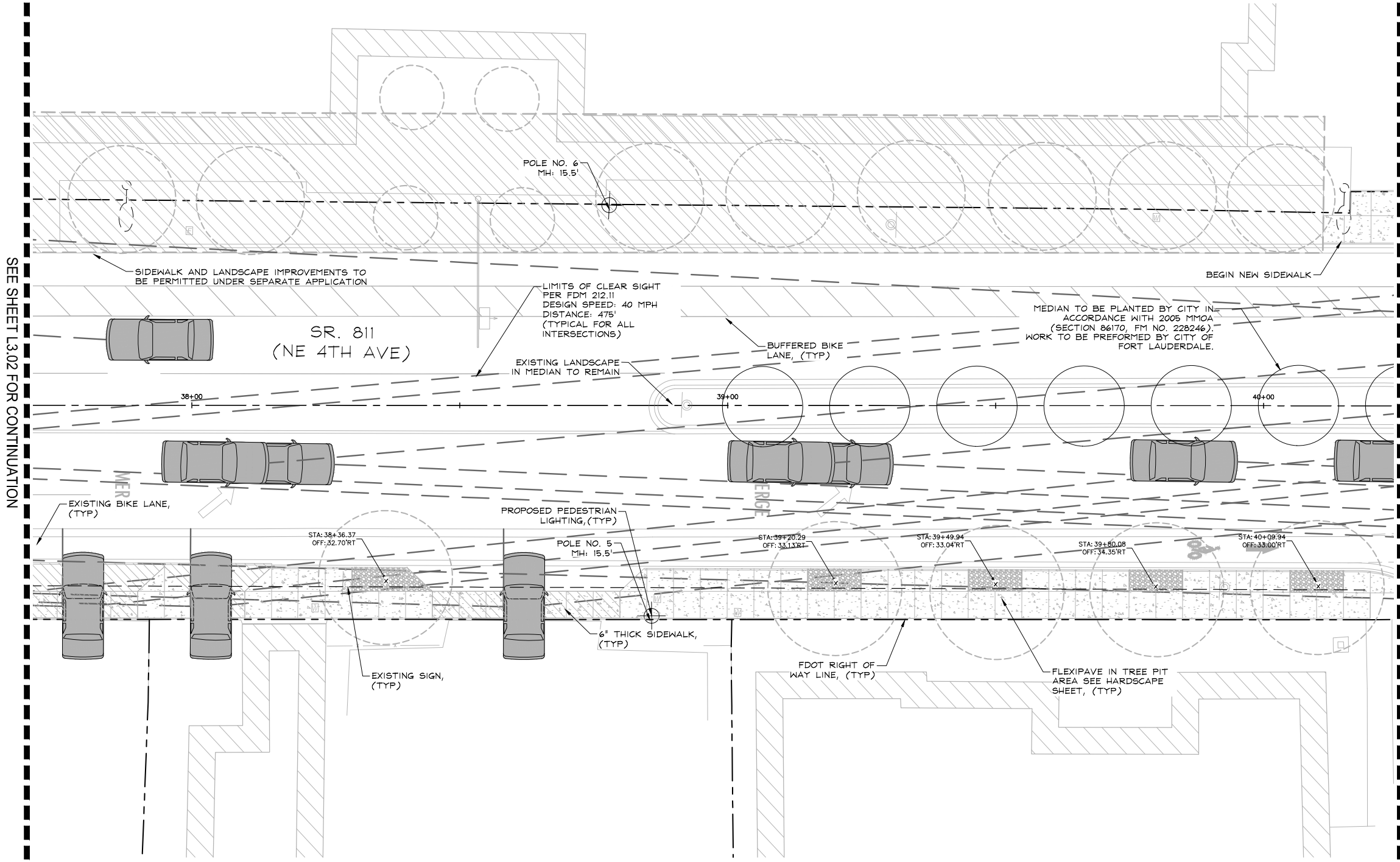
CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

 250 NE 3RD AVE. FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

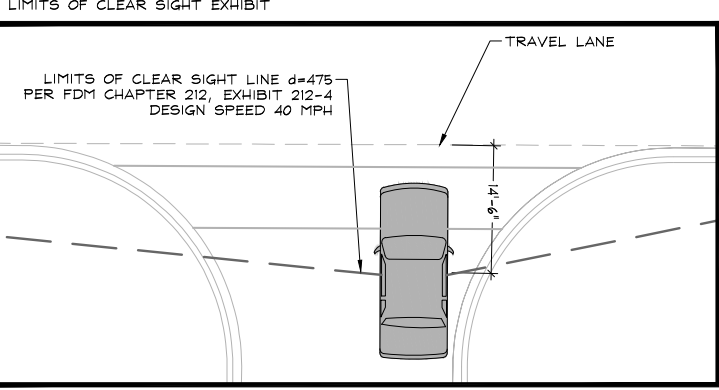
PROJECT # 12557
 NE 4TH AVENUE STREETSCAPE PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 LANDSCAPE PLAN

SHEET NO.
L3.03
 CAM 24-1145



SEE SHEET L3.02 FOR CONTINUATION

SEE SHEET L3.04 FOR CONTINUATION



NOTE:
 ALL LIMITS OF CLEAR SIGHT ORIGIN AT 14.5' BEHIND THE TRAVEL LANE PER FDOT DESIGN MANUAL SEC: 212.11

NOTE: EXISTING SHRUB AND GROUND COVER PLANTINGS LOCATED WITHIN CLEAR SIGHT LIMIT INDICATED TO REMAIN SHALL BE TRIMMED 12" FROM BACK OF CURB AND MAINTAINED HEIGHT NOT TO EXCEED 18". ALL TREES AND PALMS TO BE MAINTAINED WITH 8' OF CLEAR TRUNK.

NOTE: THE FDOT REQUIRES A 14.5' VERTICAL CLEARANCE ABOVE ROADWAYS AND ALSO REQUIRES AN 8.5' VERTICAL CLEARANCE ABOVE WALKWAYS.

NOTE: SECTION 7-1.4: COMPLIANCE WITH FEDERAL ENDANGERED SPECIES ACT AND OTHER WILDLIFE REGULATIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MANUAL SHOULD BE ADHERED TO FOR WILDLIFE INVOLVEMENT DURING CONSTRUCTION.

PLANT SCHEDULE

TREES	COMMON NAME
LA	Muskegee Crape Myrtle 8' CT, Standard
LD	Natchez Crape Myrtle 8' CT, Standard
QV	High Rise Live Oak 8' CT
VA	Montgomery Palm Single Trunk, 10' GW MIN.

VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

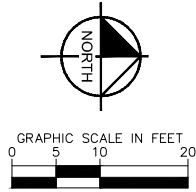
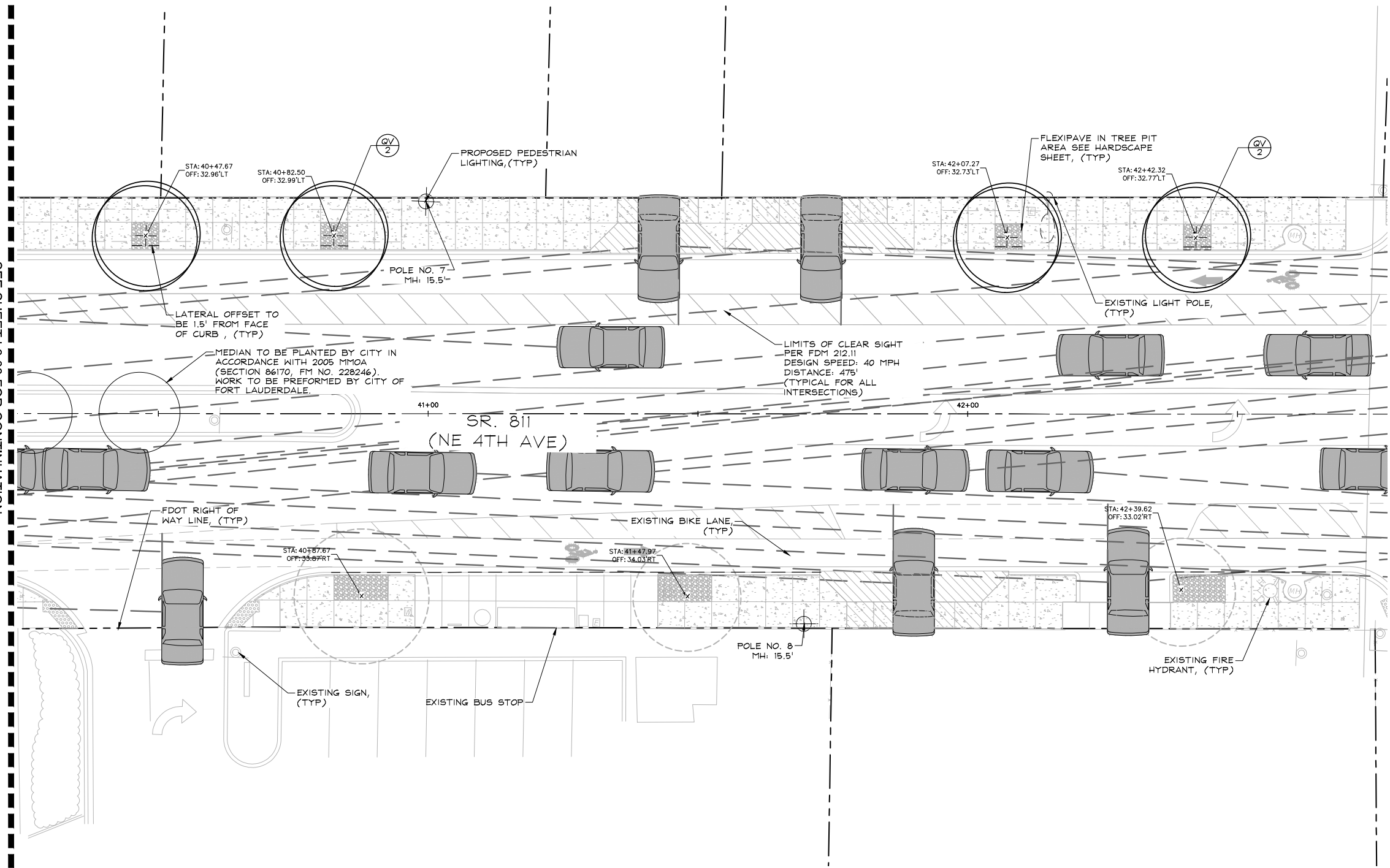
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG

 IT'S THE LAW!
 DIAL 811
 Know what's below.
 Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.04 LANDSCAPE PLAN July 26, 2022 03:26:35pm K:\WPB_LUR\043184061 - NE 4th AVE FL\CAD\Plansheets\L3.00 LANDSCAPE PLAN.dwg

SEE SHEET L3.03 FOR CONTINUATION



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

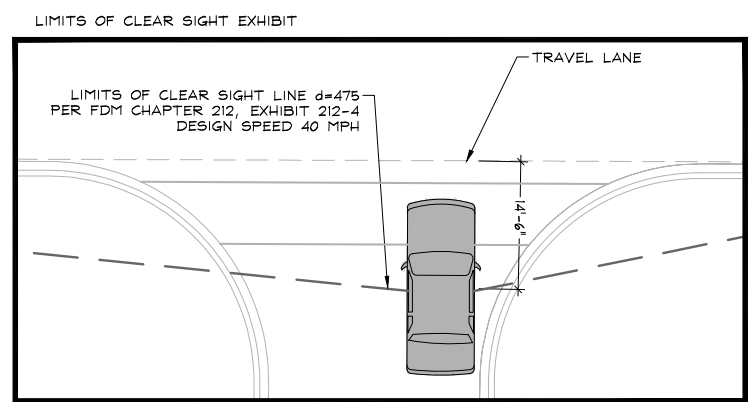
DATE: 07/01/2021
 DRAWN BY: JAS
 DESIGNED BY: JAS
 CHECKED BY: JAS
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

 250 NE 3RD AVE. FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETSCAPE PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 LANDSCAPE PLAN



NOTE:
 ALL LIMITS OF CLEAR SIGHT ORIGIN AT 14.5' BEHIND THE
 TRAVEL LANE PER FDOT DESIGN MANUAL SEC: 212.11

NOTE: EXISTING SHRUB AND GROUND COVER
 PLANTINGS LOCATED WITHIN CLEAR SIGHT LIMIT
 INDICATED TO REMAIN SHALL BE TRIMMED 12"
 FROM BACK OF CURB AND MAINTAINED HEIGHT
 NOT TO EXCEED 18". ALL TREES AND PALMS TO
 BE MAINTAINED WITH 8' OF CLEAR TRUNK.

NOTE: THE FDOT REQUIRES A 14.5' VERTICAL
 CLEARANCE ABOVE ROADWAYS AND ALSO
 REQUIRES AN 8.5' VERTICAL CLEARANCE ABOVE
 WALKWAYS.

NOTE: SECTION 7-1.4: COMPLIANCE WITH
 FEDERAL ENDANGERED SPECIES ACT AND
 OTHER WILDLIFE REGULATIONS OF THE FDOT
 STANDARD SPECIFICATIONS FOR ROAD AND
 BRIDGE CONSTRUCTION MANUAL SHOULD BE
 ADHERED TO FOR WILDLIFE INVOLVEMENT
 DURING CONSTRUCTION.

PLANT SCHEDULE

TREES	COMMON NAME
LA	Muskogee Crape Myrtle 8' CT, Standard
LD	Natchez Crape Myrtle 8' CT, Standard
QV	High Rise Live Oak 8' CT
VA	Montgomery Palm Single Trunk, 10' GW MIN.

VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE
 NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

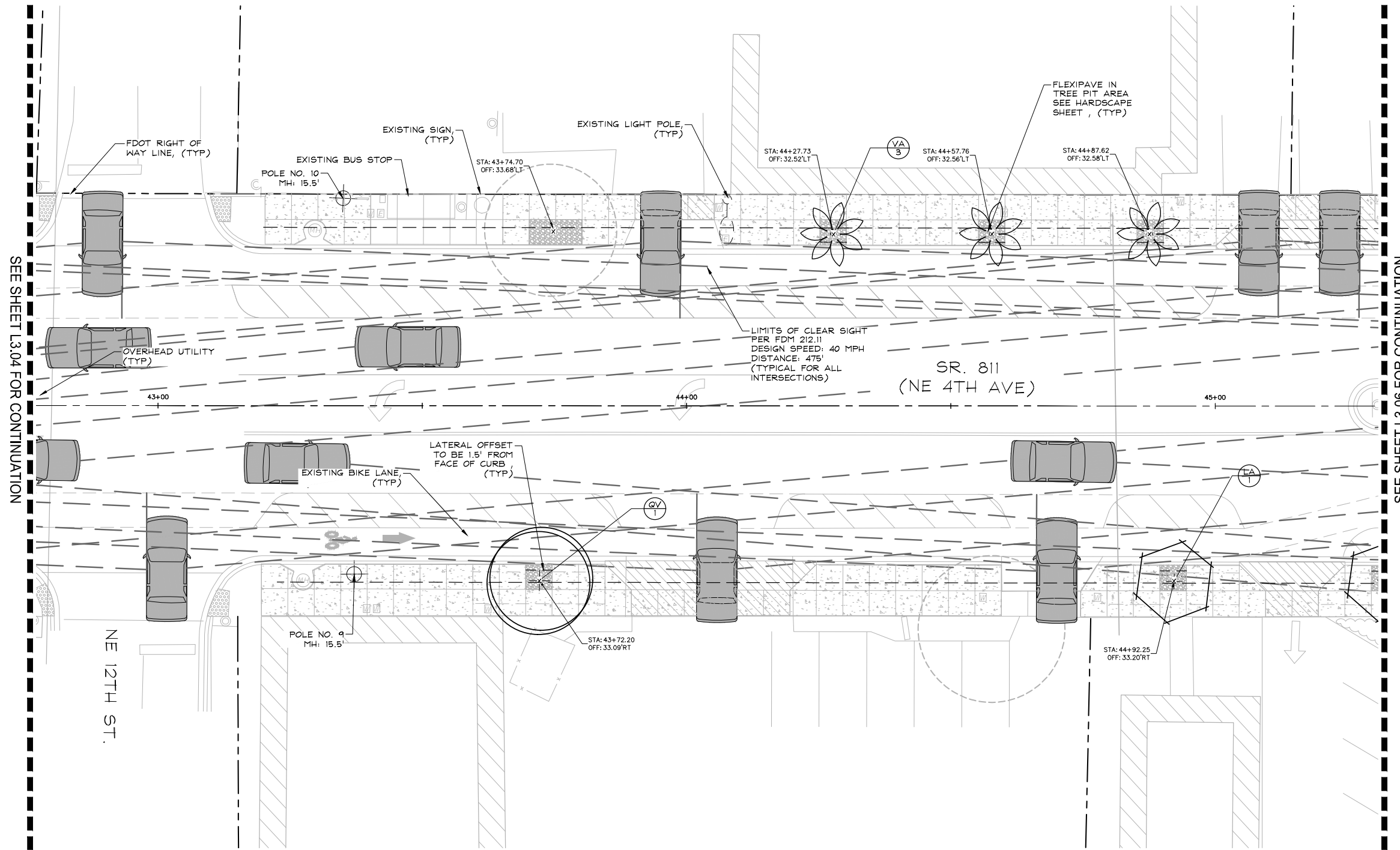
THE PRESENCE OF GROUNDWATER SHOULD BE
 ANTICIPATED. CONTRACTOR'S BID SHALL
 INCLUDE CONSIDERATION FOR ADDRESSING THIS
 ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS
 BEFORE YOU DIG

 IT'S THE LAW!
 DIAL 811
 Know what's below.
 Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

SHEET NO.
L3.04
 CAM 24-1145

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.05 LANDSCAPE PLAN July 26, 2022 03:26:45pm K:\WPB_LUR\043184061 - NE 4th Ave FL\CAD\Plansheets\L3.00 LANDSCAPE PLAN.dwg



SEE SHEET L3.04 FOR CONTINUATION

SEE SHEET L3.06 FOR CONTINUATION

Kimley-Horn
 1920 WERKVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DRAWN BY: DATE: 07/01/2021
 DESIGNED BY: SCALE: AS SHOWN
 CHECKED BY: FIELD BOOK:

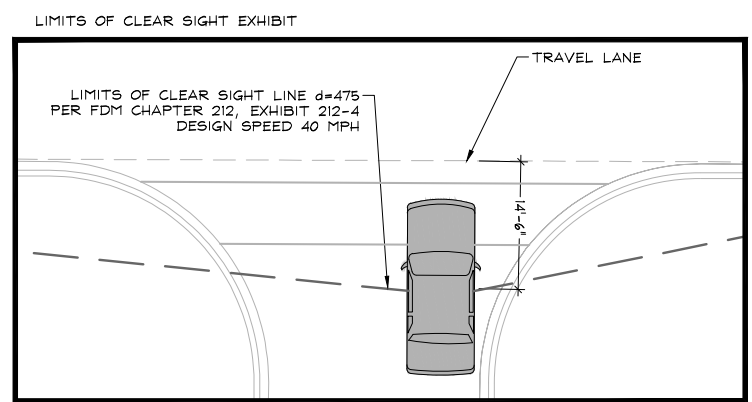
CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETSCAPE PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 LANDSCAPE PLAN

SHEET NO.
L3.05
 CAM 24-1145



NOTE:
 ALL LIMITS OF CLEAR SIGHT ORIGIN AT 14.5' BEHIND THE TRAVEL LANE PER FDOT DESIGN MANUAL SEC: 212.11

NOTE: EXISTING SHRUB AND GROUND COVER PLANTINGS LOCATED WITHIN CLEAR SIGHT LIMIT INDICATED TO REMAIN SHALL BE TRIMMED 12" FROM BACK OF CURB AND MAINTAINED HEIGHT NOT TO EXCEED 18". ALL TREES AND PALMS TO BE MAINTAINED WITH 8' OF CLEAR TRUNK.

NOTE: THE FDOT REQUIRES A 14.5' VERTICAL CLEARANCE ABOVE ROADWAYS AND ALSO REQUIRES AN 8.5' VERTICAL CLEARANCE ABOVE WALKWAYS.

NOTE: SECTION 7-1.4: COMPLIANCE WITH FEDERAL ENDANGERED SPECIES ACT AND OTHER WILDLIFE REGULATIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MANUAL SHOULD BE ADHERED TO FOR WILDLIFE INVOLVEMENT DURING CONSTRUCTION.

PLANT SCHEDULE

TREES	COMMON NAME
LA	Muskogee Crape Myrtle 8' CT, Standard
LD	Natchez Crape Myrtle 8' CT, Standard
QV	High Rise Live Oak 8' CT
VA	Montgomery Palm Single Trunk, 10' GW MIN.

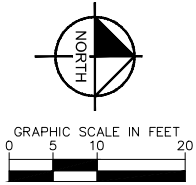
VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG

 IT'S THE LAW!
 DIAL 811
 Know what's below. Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.06 LANDSCAPE PLAN July 26, 2022 03:26:55pm K:\WPB_LUR\043184061 - NE 4th AVE FL\CAD\Plansheets\L3.00 LANDSCAPE PLAN.dwg



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DRAWN BY: JAS
 DESIGNED BY: JAS
 CHECKED BY: JAS
 FIELD BOOK:

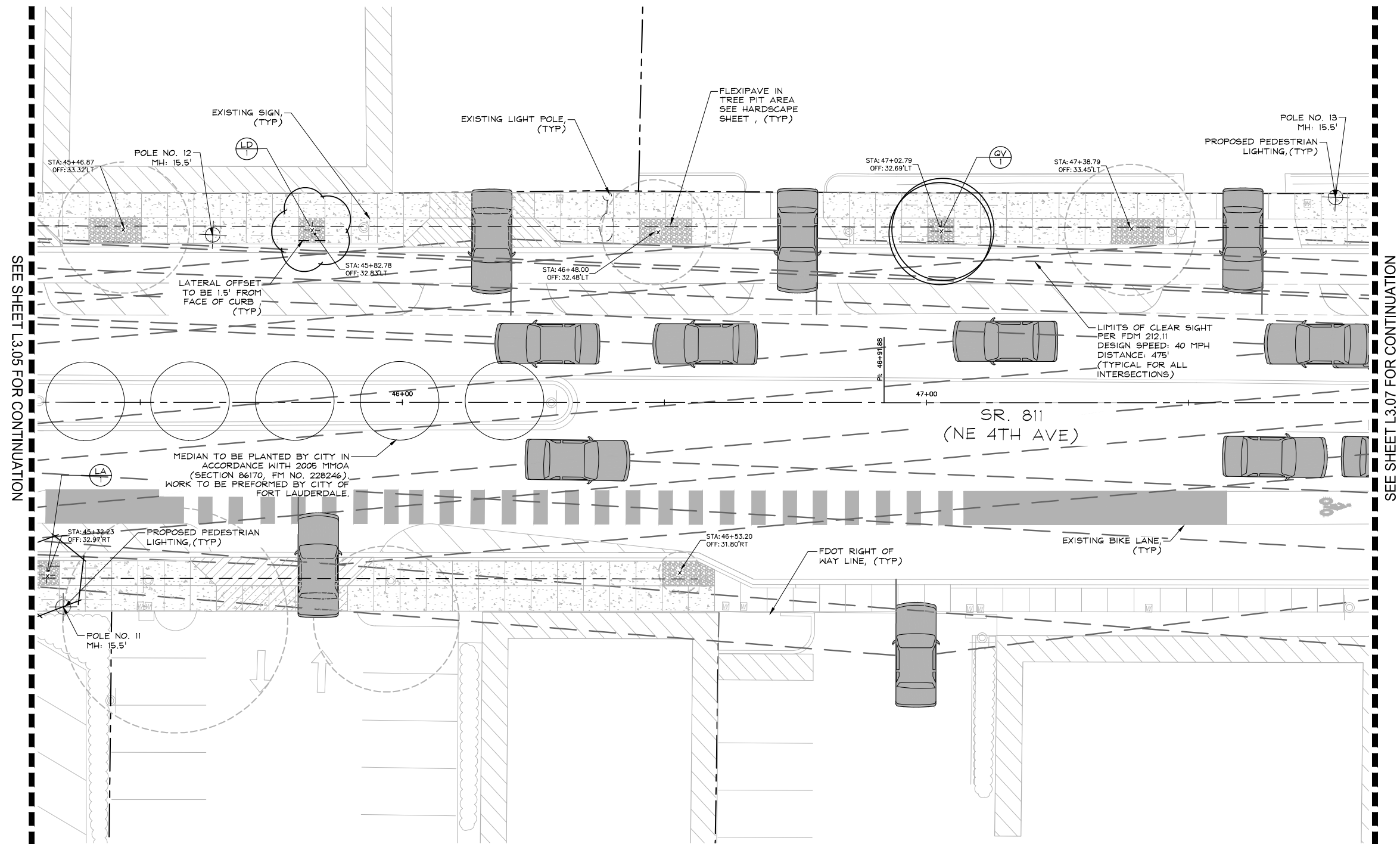
CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

REVISIONS	
NO.	DESCRIPTION

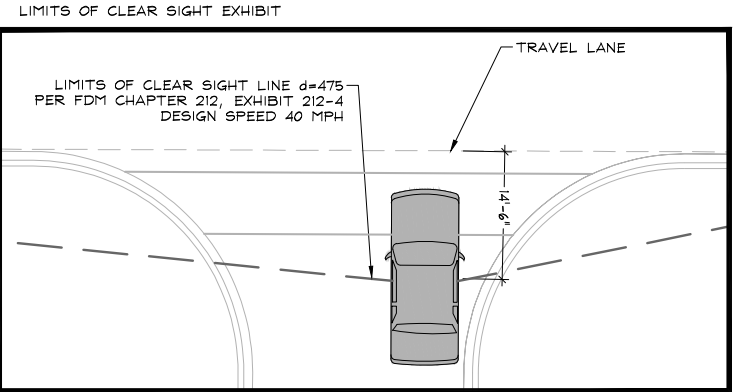
PROJECT # 12557
 NE 4TH AVENUE STREETSCAPE PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 LANDSCAPE PLAN

SHEET NO.
L3.06
 CAM 24-1145



SEE SHEET L3.05 FOR CONTINUATION

SEE SHEET L3.07 FOR CONTINUATION



NOTE: ALL LIMITS OF CLEAR SIGHT ORIGIN AT 14.5' BEHIND THE TRAVEL LANE PER FDOT DESIGN MANUAL SEC: 212.11

NOTE: EXISTING SHRUB AND GROUND COVER PLANTINGS LOCATED WITHIN CLEAR SIGHT LIMIT INDICATED TO REMAIN SHALL BE TRIMMED 12" FROM BACK OF CURB AND MAINTAINED HEIGHT NOT TO EXCEED 18". ALL TREES AND PALMS TO BE MAINTAINED WITH 8' OF CLEAR TRUNK.

NOTE: THE FDOT REQUIRES A 14.5' VERTICAL CLEARANCE ABOVE ROADWAYS AND ALSO REQUIRES AN 8.5' VERTICAL CLEARANCE ABOVE WALKWAYS.

NOTE: SECTION 7-1.4: COMPLIANCE WITH FEDERAL ENDANGERED SPECIES ACT AND OTHER WILDLIFE REGULATIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MANUAL SHOULD BE ADHERED TO FOR WILDLIFE INVOLVEMENT DURING CONSTRUCTION.

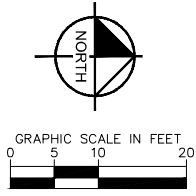
PLANT SCHEDULE

TREES	COMMON NAME
LA	Muskogee Grape Myrtle 8' CT, Standard
LD	Natchez Grape Myrtle 8' CT, Standard
QV	High Rise Live Oak 8' CT
VA	Montgomery Palm Single Trunk, 10' GW MIN.

VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG
811
 IT'S THE LAW!
 DIAL 811
 Know what's below. Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.



Kimley-Horn
 1920 WERVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

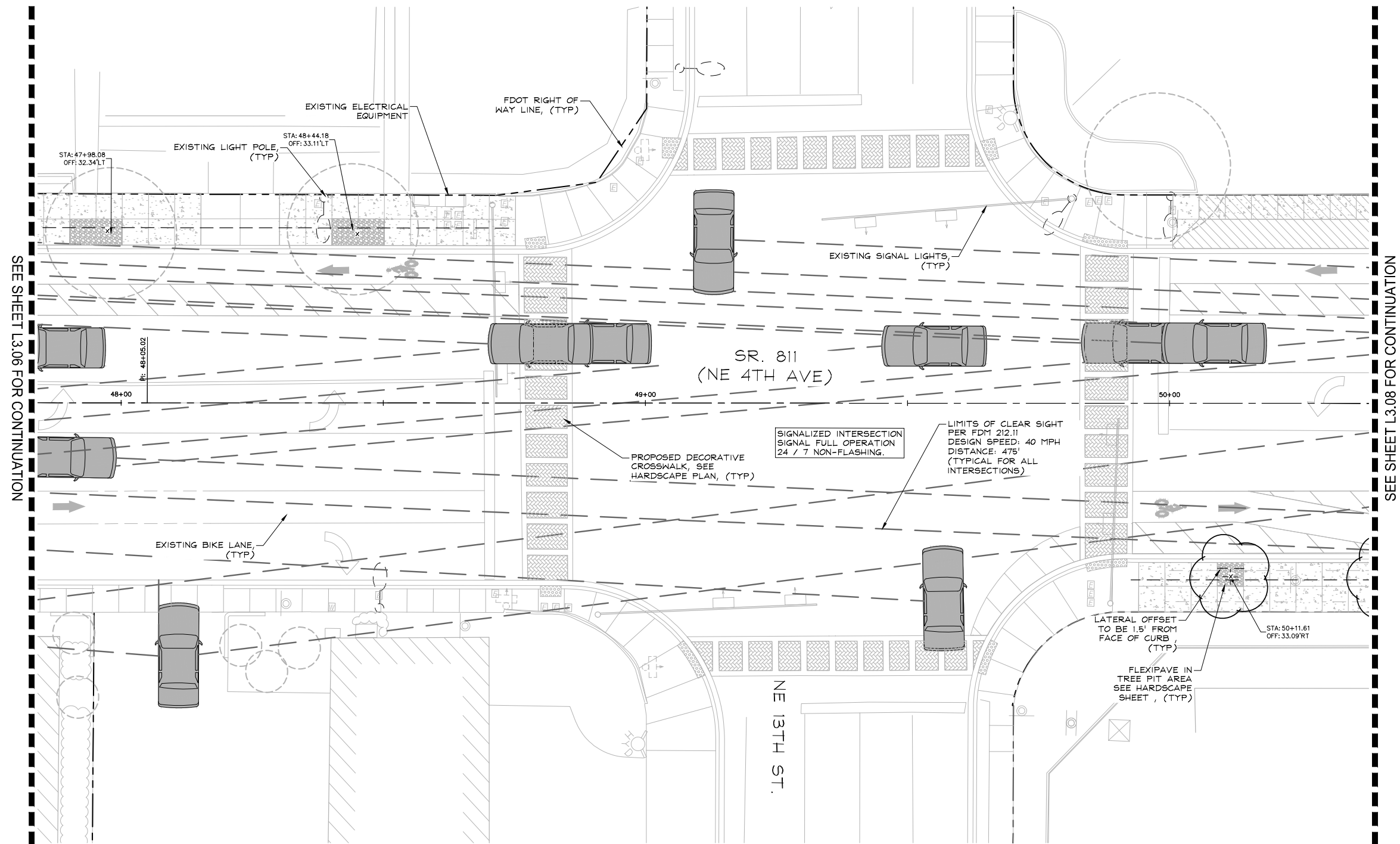
DATE: 07/01/2021
 DESIGNED BY: JAS
 CHECKED BY: SHOWN
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY
 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

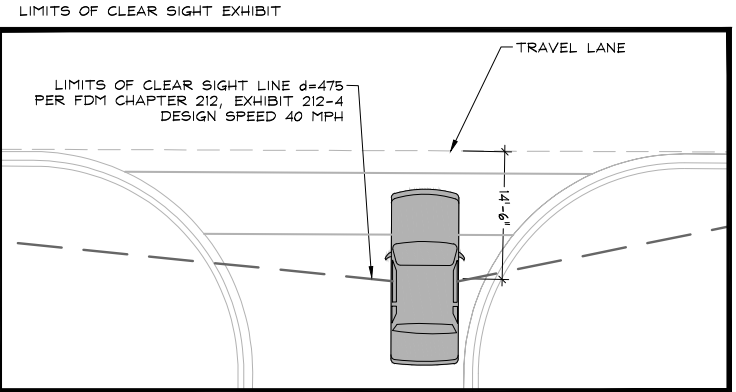
PROJECT # 12557
 NE 4TH AVENUE STREETSCAPE PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 LANDSCAPE PLAN

SHEET NO.
L3.07
 CAM 24-1145



SEE SHEET L3.06 FOR CONTINUATION

SEE SHEET L3.08 FOR CONTINUATION



NOTE:
 ALL LIMITS OF CLEAR SIGHT ORIGIN AT 14.5' BEHIND THE TRAVEL LANE PER FDOT DESIGN MANUAL SEC: 212.11

NOTE: EXISTING SHRUB AND GROUND COVER PLANTINGS LOCATED WITHIN CLEAR SIGHT LIMIT INDICATED TO REMAIN SHALL BE TRIMMED 12" FROM BACK OF CURB AND MAINTAINED HEIGHT NOT TO EXCEED 18". ALL TREES AND PALMS TO BE MAINTAINED WITH 8' OF CLEAR TRUNK.

NOTE: THE FDOT REQUIRES A 14.5' VERTICAL CLEARANCE ABOVE ROADWAYS AND ALSO REQUIRES AN 8.5' VERTICAL CLEARANCE ABOVE WALKWAYS.

NOTE: SECTION 7-1.4: COMPLIANCE WITH FEDERAL ENDANGERED SPECIES ACT AND OTHER WILDLIFE REGULATIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MANUAL SHOULD BE ADHERED TO FOR WILDLIFE INVOLVEMENT DURING CONSTRUCTION.

PLANT SCHEDULE

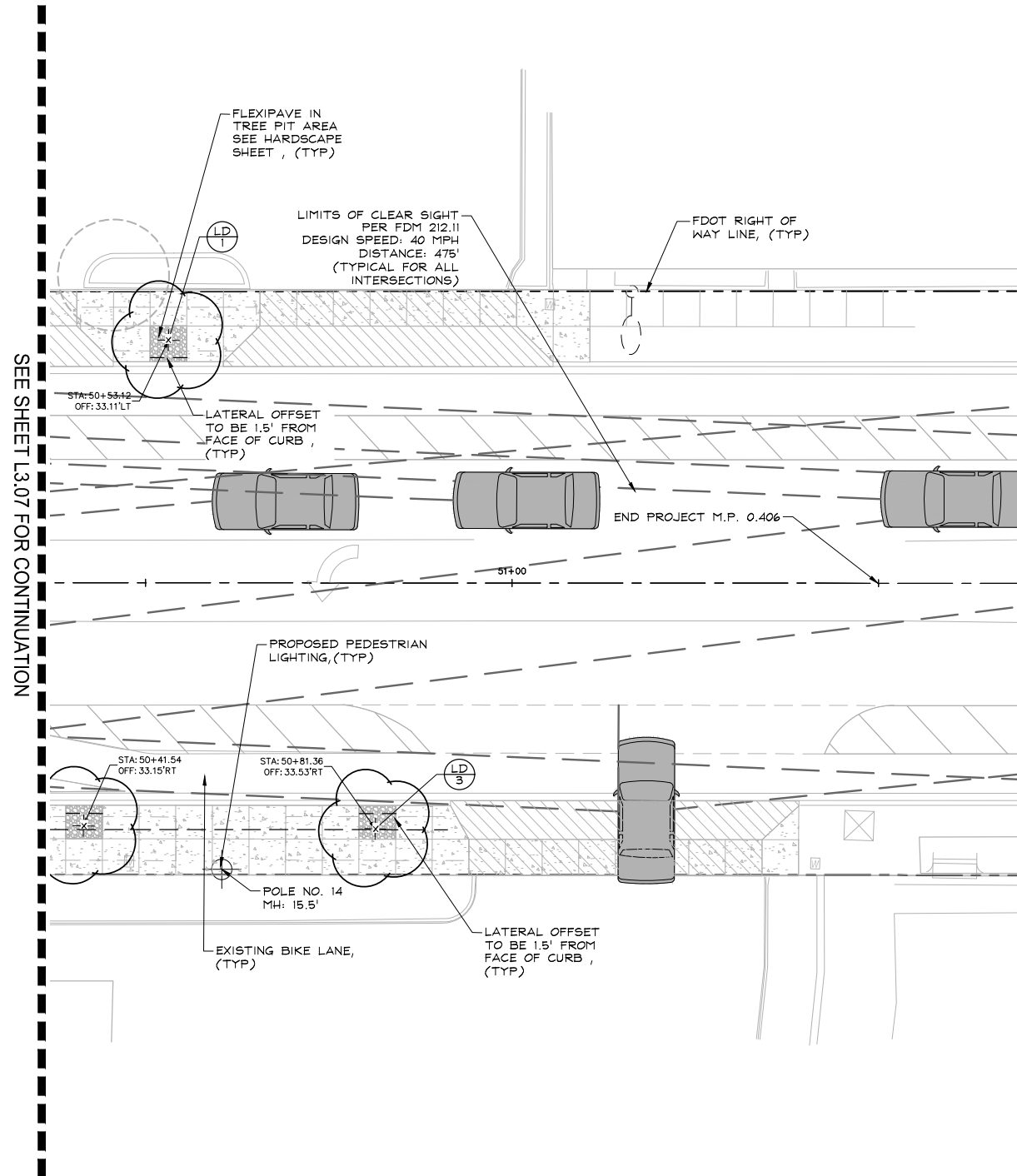
TREES	COMMON NAME
LA	Muskegee Grape Myrtle 8' CT, Standard
LD	Natchez Grape Myrtle 8' CT, Standard
QV	High Rise Live Oak 8' CT
VA	Montgomery Palm Single Trunk, 10' GW MIN.

VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG
811
 IT'S THE LAW!
 DIAL 811
 Know what's below.
 Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L2.08 LANDSCAPE PLAN July 26, 2022 03:27:17pm K:\WPB_JUR\043184061 - NE 4th AVE FL\CAD\Plansheets\L3.00 LANDSCAPE PLAN.dwg

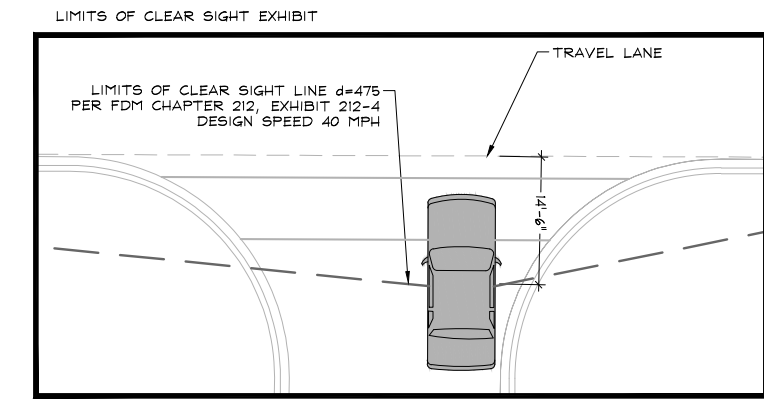


PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	CONT.	CAL.	SIZE	QTY
LA	Lagerstroemia 'Muskogee'	Muskogee Crape Myrtle	Cont.	4" Cal.	18' HT x 7' SPR	2
LD	Lagerstroemia 'Natchez'	Natchez Crape Myrtle	Cont.	4" Cal.	18' HT x 7' SPR	5
QV	Quercus virginiana 'High Rise'	High Rise Live Oak	B & B / CONT.	8" Cal.	22' HT x 10' SPR	6
VA	Veitchia orecina	Montgomery Palm	F.G.		18' GW	3

PLANTING NOTES:

1. CONTRACTOR SHALL REFER TO THE FDOT NOTES ON SHEET C0.01 AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
2. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
3. PLANT SIZES LISTED ARE THE MINIMUM SIZE THAT WILL BE ACCEPTED FOR THAT PLANT.
4. ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AND/OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
5. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
6. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
7. CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
8. REFER TO DETAIL 1/L2.08 FOR TREE INSTALLATION, AS WELL AS UNDERGROUND BRACING PER FDOT INDEX 580-001.



- NOTE: EXISTING SHRUB AND GROUND COVER PLANTINGS LOCATED WITHIN CLEAR SIGHT LIMIT INDICATED TO REMAIN SHALL BE TRIMMED 12" FROM BACK OF CURB AND MAINTAINED HEIGHT NOT TO EXCEED 18". ALL TREES AND PALMS TO BE MAINTAINED WITH 8' OF CLEAR TRUNK.
- NOTE: THE FDOT REQUIRES A 14.5' VERTICAL CLEARANCE ABOVE ROADWAYS AND ALSO REQUIRES AN 8.5' VERTICAL CLEARANCE ABOVE WALKWAYS.
- NOTE: SECTION 7-1.4. COMPLIANCE WITH FEDERAL ENDANGERED SPECIES ACT AND OTHER WILDLIFE REGULATIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MANUAL SHOULD BE ADHERED TO FOR WILDLIFE INVOLVEMENT DURING CONSTRUCTION.

NOTE: ALL LIMITS OF CLEAR SIGHT ORIGIN AT 14.5' BEHIND THE TRAVEL LANE PER FDOT DESIGN MANUAL SEC: 212.11

JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021	SCALE: AS SHOWN
DRAWN BY:	CHECKED BY:
DESIGNED BY:	FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

 290 NE 3RD AVE. FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETSCAPE PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 LANDSCAPE PLAN

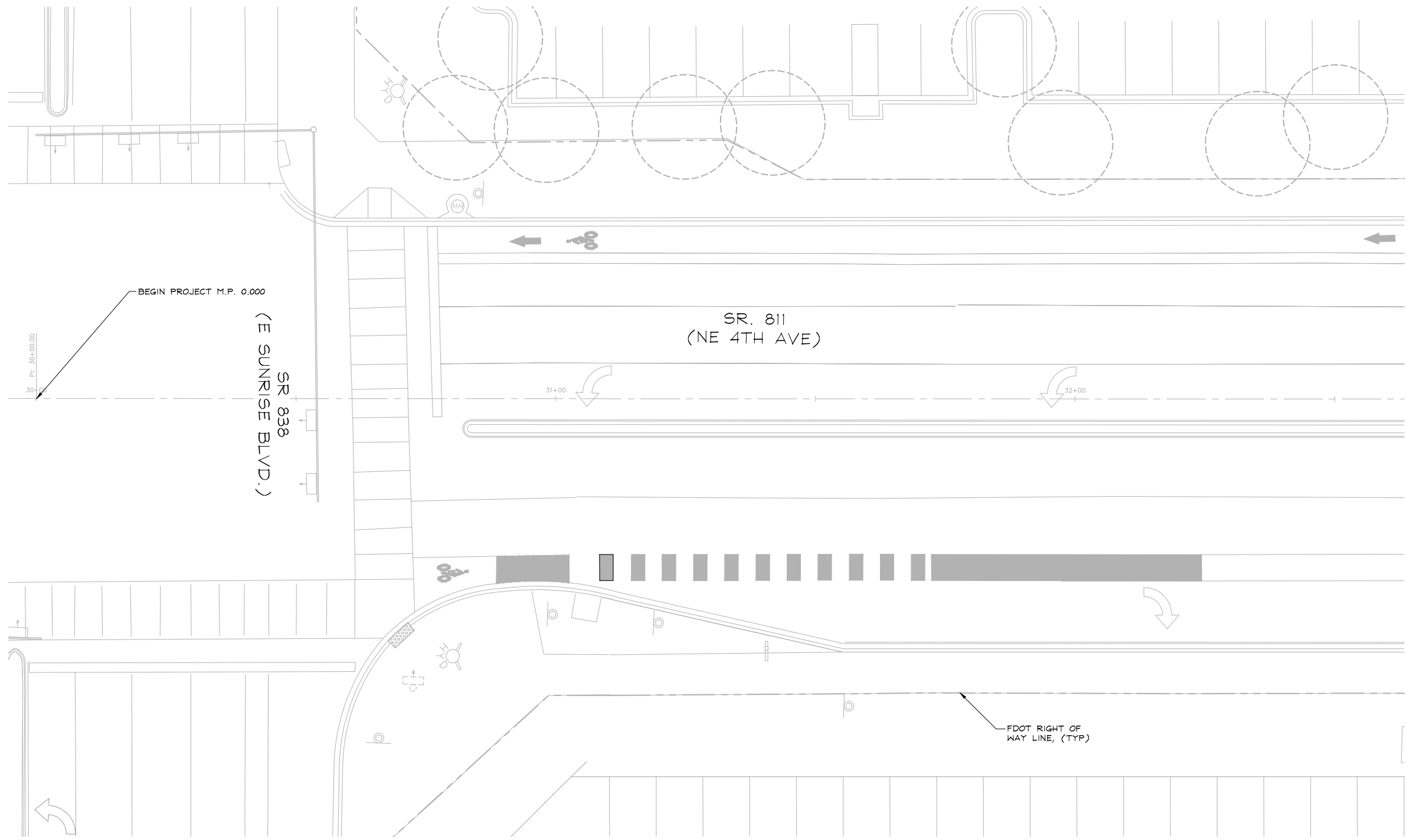
VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

CALL 2 WORKING DAYS BEFORE YOU DIG **811**
 IT'S THE LAW! DIAL 811 Know what's below. Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

SHEET NO.
L3.08
 CAM 24-1145

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L4.00 IRRIGATION PLAN July 26, 2022 03:27:56pm K:\WPB_URG\043184061 - NE 4th AVE FTL\CAD\Plansheets\L4.00 IRRIGATION PLAN.dwg



NO PROPOSED IMPROVEMENTS, THIS SHEET

VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE
 NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE
 ANTICIPATED. CONTRACTOR'S BID SHALL
 INCLUDE CONSIDERATION FOR ADDRESSING THIS
 ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS
 BEFORE YOU DIG



IT'S THE LAW!
 DIAL 811

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY 696
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE:	07/01/2021
DRAWN BY:	AS SHOWN
DESIGNED BY:	AS SHOWN
CHECKED BY:	FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

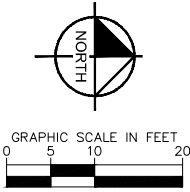
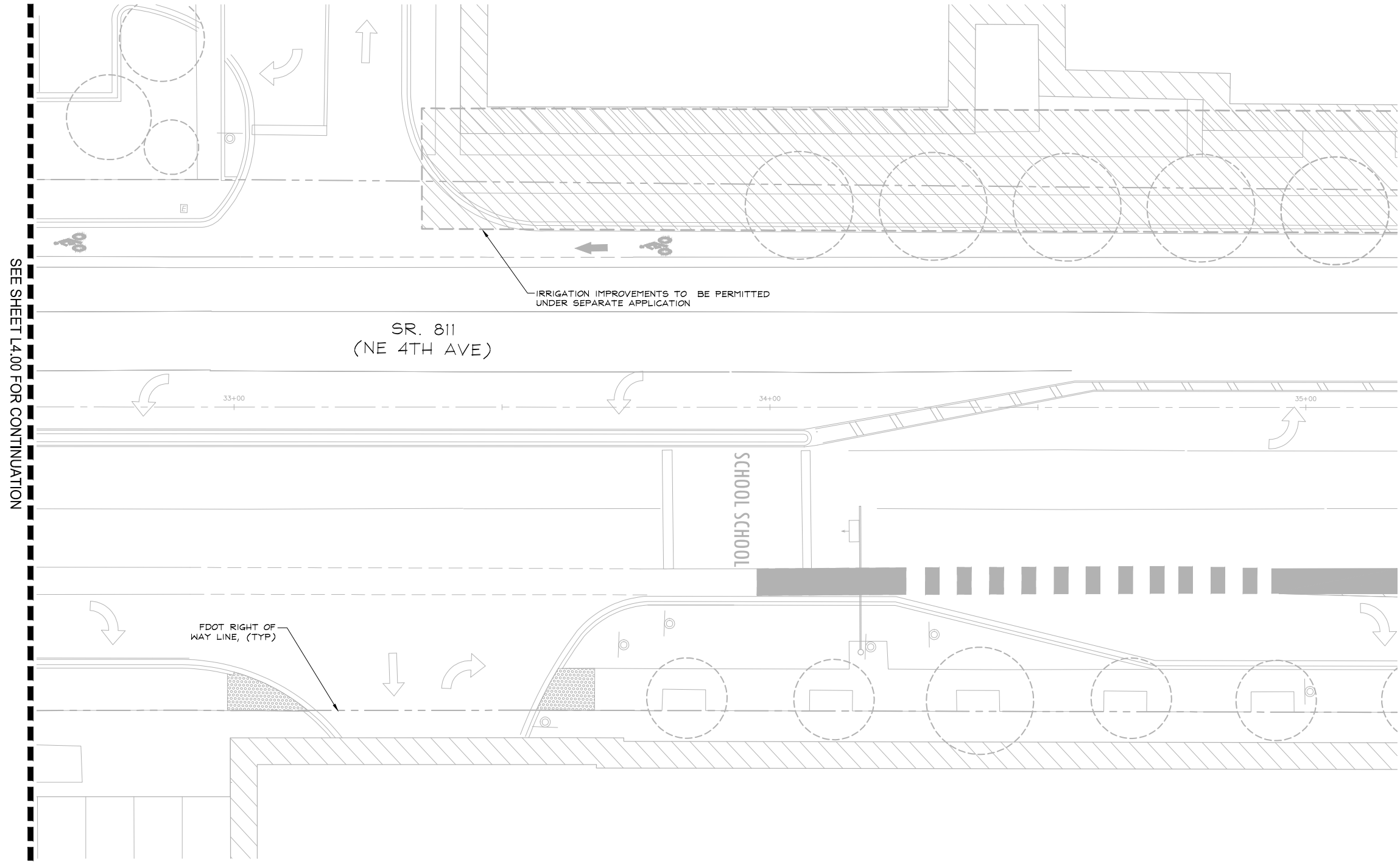
 250 NE 3RD AVE. FORT LAUDERDALE, FL 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 IRRIGATION PLAN

SHEET NO.
L4.00
 CAM 24-1145


Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L4.01 IRRIGATION PLAN July 26, 2022 03:28:01pm K:\WPB_URG\043184061 - NE 4th AVE FTL\CAD\Plansheets\L4.00 IRRIGATION PLAN.dwg



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DESIGNED BY: JAS
 CHECKED BY: SHOWN
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

 250 NE 3RD AVE. FORT LAUDERDALE, FL 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY (CHK'D)

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 IRRIGATION PLAN


SHEET NO.
L4.01
 CAM 24-1145

NO PROPOSED IMPROVEMENTS, THIS SHEET

VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE
 NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

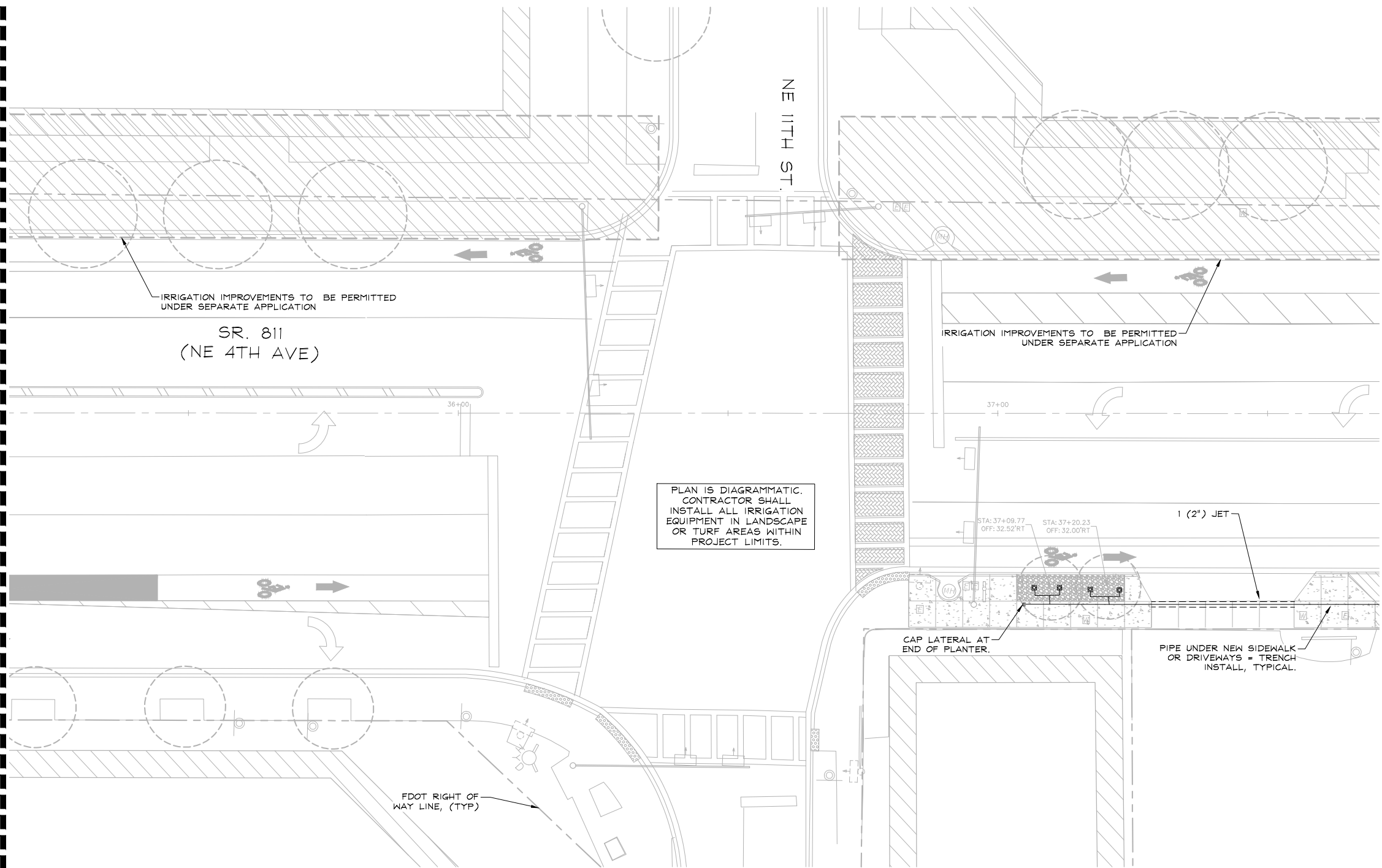
THE PRESENCE OF GROUNDWATER SHOULD BE
 ANTICIPATED. CONTRACTOR'S BID SHALL
 INCLUDE CONSIDERATION FOR ADDRESSING THIS
 ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS
 BEFORE YOU DIG



IT'S THE LAW!
 DIAL 811 Know what's below.
 Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L4.02 IRRIGATION PLAN July 26, 2022 03:28:16pm K:\WPB_URS\043184061 - NE 4th AVE FTL CAD\Drawings\L4.00 IRRIGATION PLAN.dwg



IRRIGATION SCHEDULE

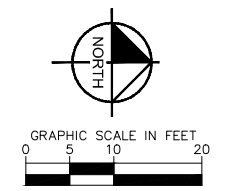
SYMBOL	MANUFACTURER/MODEL
▲	Rain Bird RWS-B-C 1401
△	Rain Bird PESB
□	Backflow Preventer 1"
⊙	Backflow Preventer 1"
⊙	Backflow Preventer 1"
⊙	Backflow Preventer 1"
⊙	K-Rain BL-KR1
—	Irrigation Lateral Line: PVC Schedule 40
—	Irrigation Mainline: PVC Schedule 40
- - - - -	Pipe Sleeve: See Sleeve Legend

SLEEVE LEGEND:

HDD	= HORIZONTAL DIRECTIONAL DRILL (HDPE PIPE)
TR	= REMOVE AND REPLACE SIDEWALK, TRENCH SLEEVES IN PLACE (PVC SCH 40)
JET	= MISSILE BORE OR WATER JET SLEEVE UNDER SIDEWALK (PVC SCH 40)
(X) X" XXX	SLEEVE TYPE (SEE ABOVE)
—	SLEEVE SIZE
—	NUMBER OF SLEEVES

FDOT IRRIGATION NOTES:

- REFER TO SHEET C0.01 FOR FDOT IRRIGATION NOTES.



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DESIGNED BY: JAS
 CHECKED BY: SHOWN
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

 250 NE 3RD AVE., FORT LAUDERDALE, FL 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 IRRIGATION PLAN

VERTICAL DATUM:
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

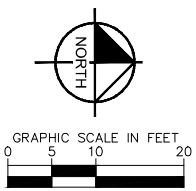
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG

 IT'S THE LAW!
 DIAL 811
 Know what's below. Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

SHEET NO.
L4.02
 CAM 24-1145


Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L4.03 IRRIGATION PLAN July 26, 2022 03:28:30pm K:\WPB_URG\CAD\Plansheets\L4.00 IRRIGATION PLAN.dwg



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #99
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

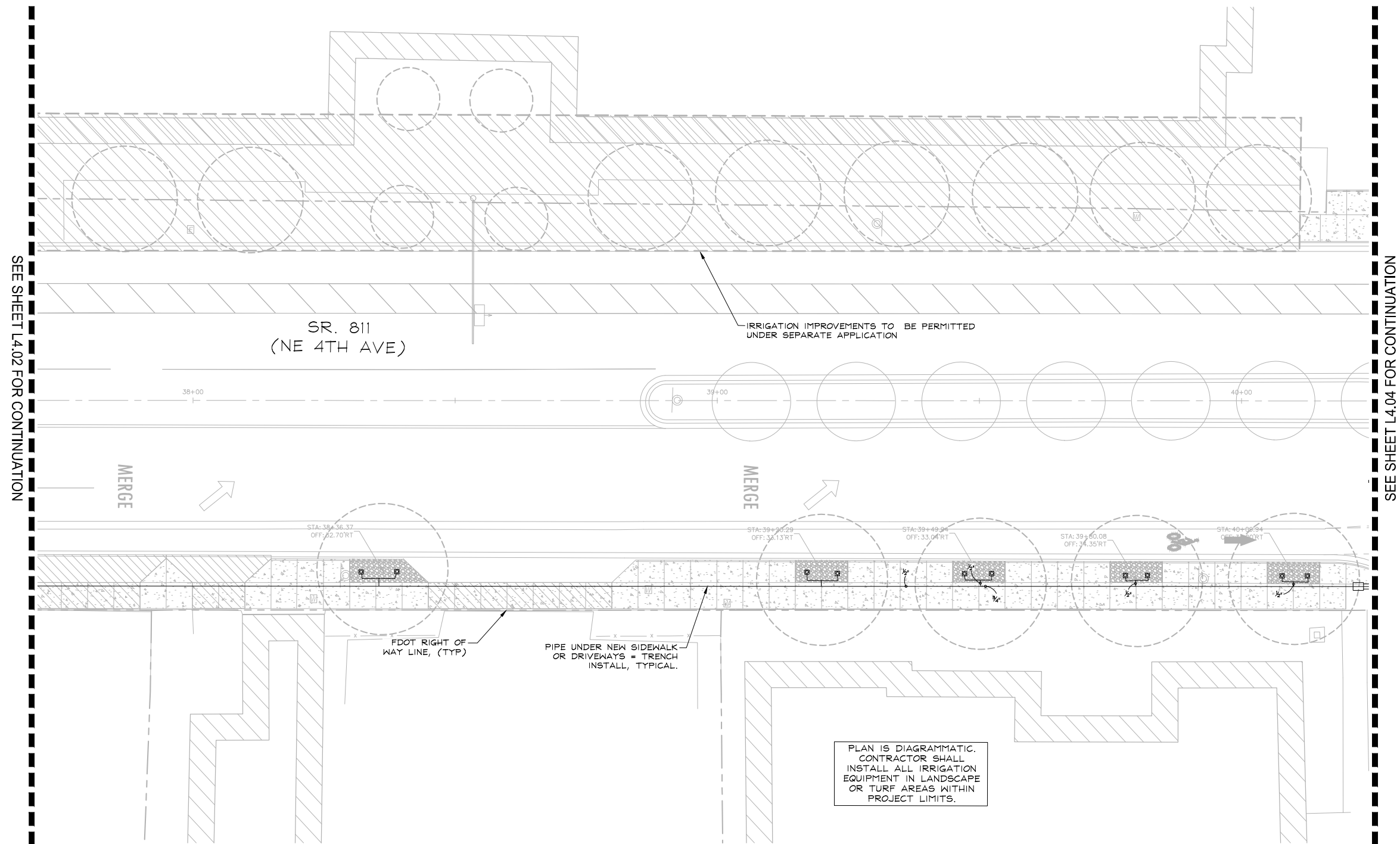
DATE: 07/01/2021
 DRAWN BY: AS SHOWN
 DESIGNED BY: AS SHOWN
 CHECKED BY:
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

 250 NE 3RD AVE., FORT LAUDERDALE, FL 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY (CHK'D)

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 IRRIGATION PLAN

SHEET NO.
L4.03
 CAM 24-1145



SEE SHEET L4.02 FOR CONTINUATION

SEE SHEET L4.04 FOR CONTINUATION

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	Rain Bird RWS-B-C 1401
	Rain Bird PESB
	Backflow Preventer 1"
	Backflow Preventer 1"
	Backflow Preventer 1"
	K-Rain BL-KRI
	Irrigation Lateral Line: PVC Schedule 40
	Irrigation Mainline: PVC Schedule 40
	Pipe Sleeve: See Sleeve Legend



SLEEVE LEGEND:

HDD	= HORIZONTAL DIRECTIONAL DRILL (HDPE PIPE)
TR	= REMOVE AND REPLACE SIDEWALK, TRENCH SLEEVES IN PLACE (PVC SCH 40)
JET	= MISSILE BORE OR WATER JET SLEEVE UNDER SIDEWALK (PVC SCH 40)
(X) X" XXX	SLEEVE TYPE (SEE ABOVE)
	SLEEVE SIZE
	NUMBER OF SLEEVES

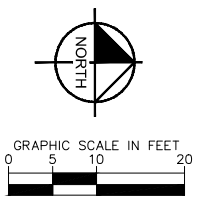
FDOT IRRIGATION NOTES:
 1. REFER TO SHEET C0.01 FOR FDOT IRRIGATION NOTES.

VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG 
 IT'S THE LAW! DIAL 811 
 Know what's below. Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L4.04 IRRIGATION PLAN July 26, 2022 03:28:47pm K:\WPB_URG\CAD\Plansheets\L4.00 IRRIGATION PLAN.dwg



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY 696
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DESIGNED BY: JAS
 CHECKED BY: SHOWN
 FIELD BOOK:

CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

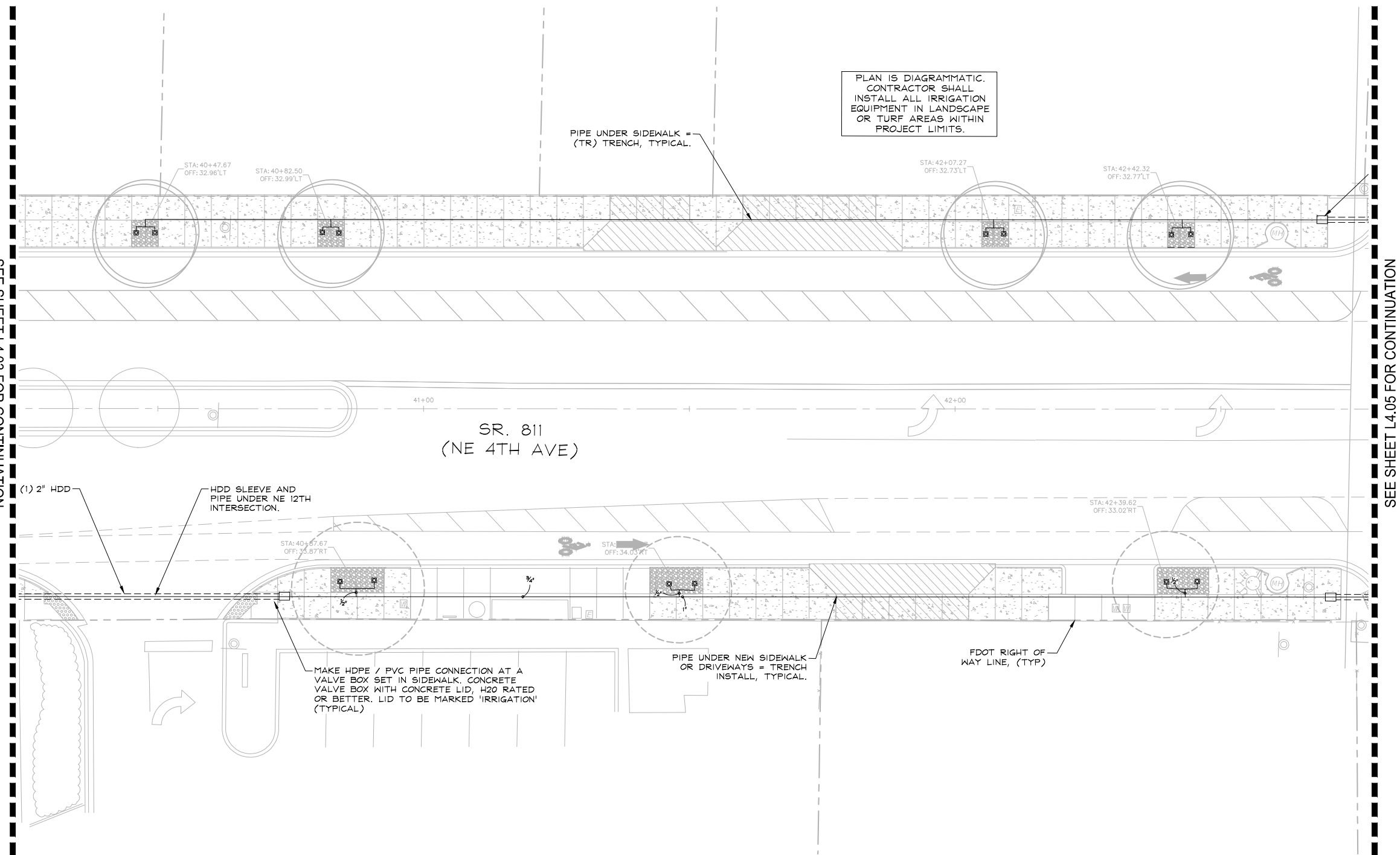
 250 NE 3RD AVE., FORT LAUDERDALE, FL 33301

REVISIONS	
NO.	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 IRRIGATION PLAN

SHEET NO.
L4.04
 CAM 24-1145

PLAN IS DIAGRAMMATIC.
 CONTRACTOR SHALL
 INSTALL ALL IRRIGATION
 EQUIPMENT IN LANDSCAPE
 OR TURF AREAS WITHIN
 PROJECT LIMITS.



SEE SHEET L4.03 FOR CONTINUATION

SEE SHEET L4.05 FOR CONTINUATION

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	Rain Bird RWS-B-C 1401
	Rain Bird PESB
	Backflow Preventer 1"
	Backflow Preventer 1"
	Backflow Preventer 1"
	K-Rain BL-KRI
	Irrigation Lateral Line: PVC Schedule 40
	Irrigation Mainline: PVC Schedule 40
	Pipe Sleeve: See Sleeve Legend

SLEEVE LEGEND:

HDD = HORIZONTAL DIRECTIONAL DRILL (HDPE PIPE)
 TR = REMOVE AND REPLACE SIDEWALK, TRENCH SLEEVES IN PLACE (PVC SCH 40)
 JET = MISSILE BORE OR WATER JET SLEEVE UNDER SIDEWALK (PVC SCH 40)

(X) X" XXX
 SLEEVE TYPE (SEE ABOVE)
 SLEEVE SIZE
 NUMBER OF SLEEVES

FDOT IRRIGATION NOTES:
 1. REFER TO SHEET C0.01 FOR FDOT IRRIGATION NOTES.

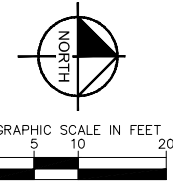
VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE
 NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE
 ANTICIPATED. CONTRACTOR'S BID SHALL
 INCLUDE CONSIDERATION FOR ADDRESSING THIS
 ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS
 BEFORE YOU DIG

811
 IT'S THE LAW!
 DIAL 811
 Know what's below.
 Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L4.05 IRRIGATION PLAN July 26, 2022 03:29:00pm K:\WPB_LRG\043184061 - NE 4th Ave FTL CAD\Plansheets\L4.00 IRRIGATION PLAN.dwg



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX: 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DRAWN BY: JAS
 DESIGNED BY: JAS
 CHECKED BY: JAS
 FIELD BOOK:

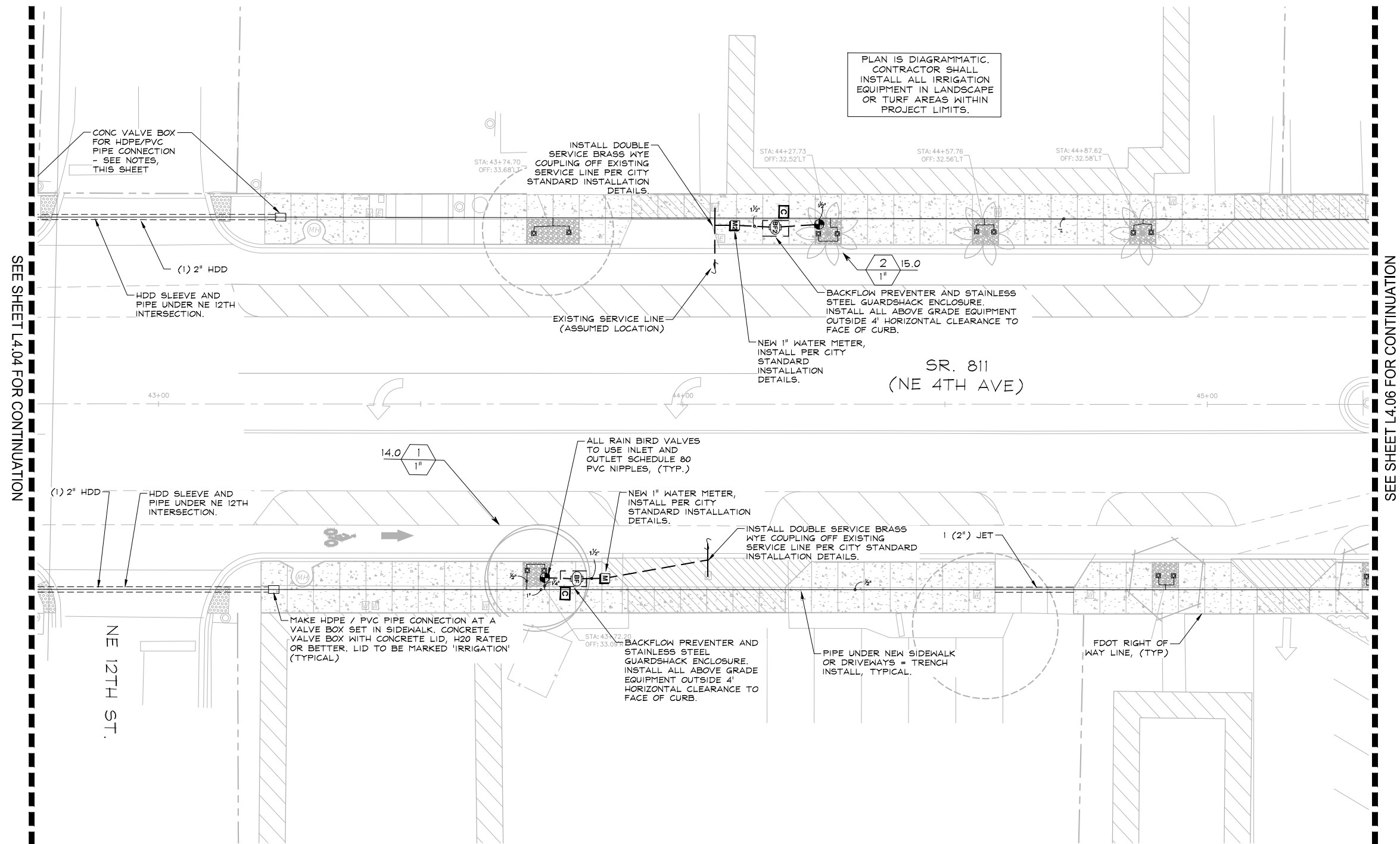
CITY OF FORT LAUDERDALE
 TRANSPORTATION & MOBILITY

 250 NE 3RD AVE., FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 IRRIGATION PLAN

SHEET NO.
L4.05
 CAM 24-1145



SEE SHEET L4.04 FOR CONTINUATION

SEE SHEET L4.06 FOR CONTINUATION

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
▲ 1401 1402 1404 1408	Rain Bird RWS-B-C 1401
☐	Rain Bird PESB
⊖	Backflow Preventer 1"
⊖2	Backflow Preventer 1"
⊖3	Backflow Preventer 1"
⊖	K-Rain BL-KR1
—	Irrigation Lateral Line: PVC Schedule 40
---	Irrigation Mainline: PVC Schedule 40
----	Pipe Sleeve: See Sleeve Legend

SLEEVE LEGEND:

HDD = HORIZONTAL DIRECTIONAL DRILL (HDPE PIPE)
 TR = REMOVE AND REPLACE SIDEWALK, TRENCH SLEEVES IN PLACE (PVC SCH 40)
 JET = MISSILE BORE OR WATER JET SLEEVE UNDER SIDEWALK (PVC SCH 40)

(X) X" XXX
 SLEEVE TYPE (SEE ABOVE)
 SLEEVE SIZE
 NUMBER OF SLEEVES

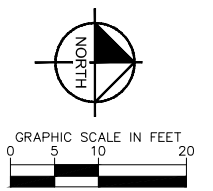
FDOT IRRIGATION NOTES:
 1. REFER TO SHEET C0.01 FOR FDOT IRRIGATION NOTES.

VERTICAL DATUM
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG **811**
 IT'S THE LAW! DIAL 811 Know what's below. Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PLAN IS DIAGRAMMATIC.
CONTRACTOR SHALL
INSTALL ALL IRRIGATION
EQUIPMENT IN LANDSCAPE
OR TURF AREAS WITHIN
PROJECT LIMITS.



Kimley-Horn
1920 WEKIVA WAY #200
WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX:
561-330-2245
WWW.KIMLEY-HORN.COM
REGISTRY 696
© 2022 KIMLEY-HORN AND
ASSOCIATES, INC.

SEAL
JONATHAN D. HAIGH, PLA
STATE LICENSE NUMBER
LA #6666795
07/26/2022

DATE: 07/01/2021
DRAWN BY: JAS
DESIGNED BY: JAS
CHECKED BY: SHOWN
FIELD BOOK:

CITY OF FORT LAUDERDALE
TRANSPORTATION
&
MOBILITY
250 NE 3RD AVE., FORT LAUDERDALE, FL 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY (CHK'D)

PROJECT # 12557
NE 4TH AVENUE STREETScape PROJECT
E SUNRISE BLVD TO NE 13TH ST
FORT LAUDERDALE, FL
IRRIGATION PLAN

SHEET NO.
L4.06
CAM 24-1145

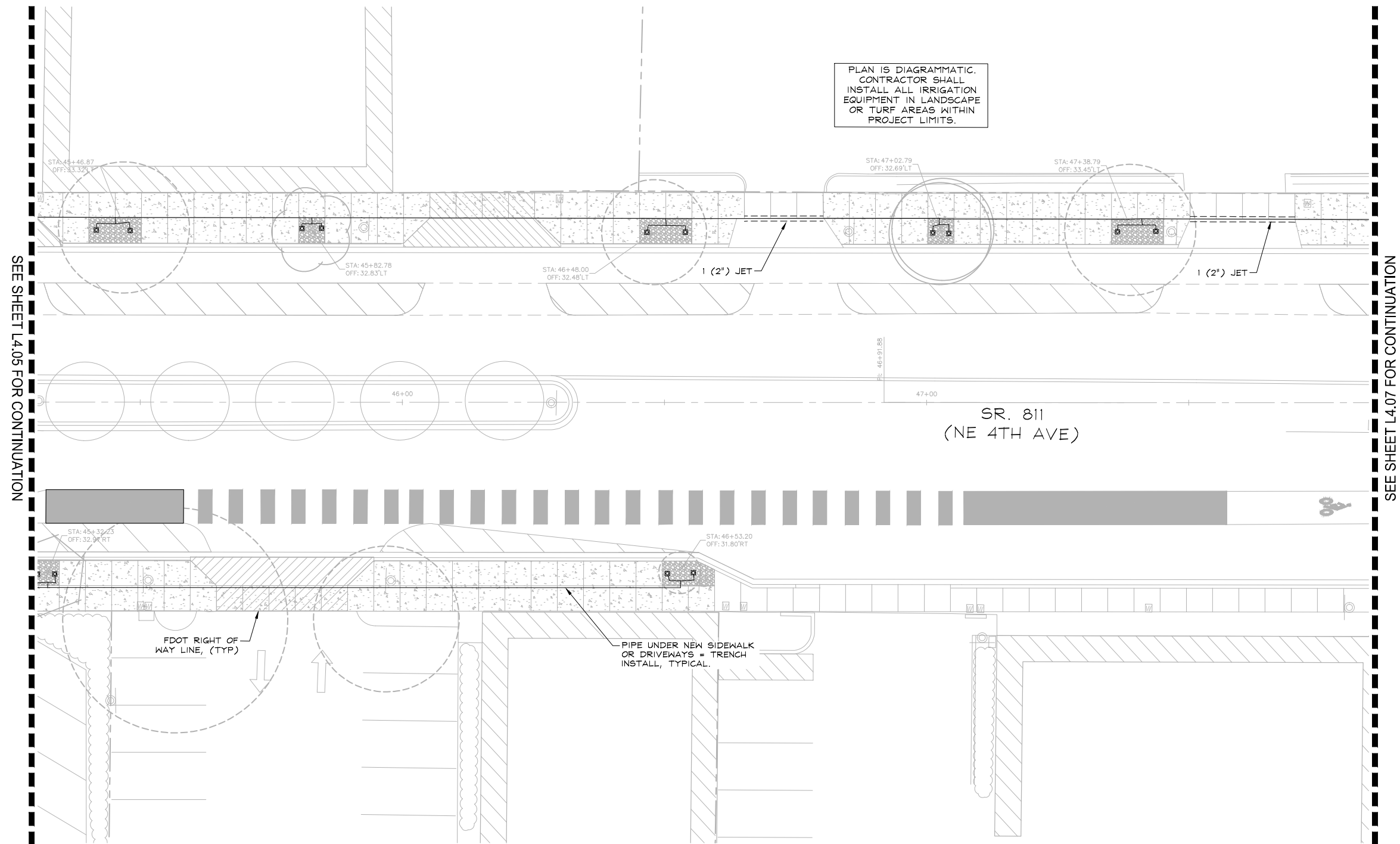
VERTICAL DATUM
ELEVATIONS SHOWN HEREON ARE BASED ON THE
NORTH AMERICAN VERTICAL DATUM OF 1988.
NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

CALL 2 WORKING DAYS
BEFORE YOU DIG

811
IT'S THE LAW!
DIAL 811
Know what's below.
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

THE PRESENCE OF GROUNDWATER SHOULD BE
ANTICIPATED. CONTRACTOR'S BID SHALL
INCLUDE CONSIDERATION FOR ADDRESSING THIS
ISSUE AND OBTAINING ALL NECESSARY PERMITS.



SEE SHEET L4.05 FOR CONTINUATION

SEE SHEET L4.07 FOR CONTINUATION

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
▲	Rain Bird RWS-B-C 1401
△	Rain Bird PESB
□	Backflow Preventer 1"
1401	Backflow Preventer 1"
1402	Backflow Preventer 1"
1404	Backflow Preventer 1"
1408	K-Rain BL-KRI
—	Irrigation Lateral Line: PVC Schedule 40
---	Irrigation Mainline: PVC Schedule 40
----	Pipe Sleeve: See Sleeve Legend

SLEEVE LEGEND:

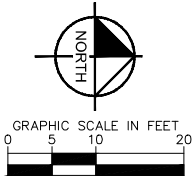
HDD	= HORIZONTAL DIRECTIONAL DRILL (HDPE PIPE)
TR	= REMOVE AND REPLACE SIDEWALK, TRENCH SLEEVES IN PLACE (PVC SCH 40)
JET	= MISSILE BORE OR WATER JET SLEEVE UNDER SIDEWALK (PVC SCH 40)
(X) X" XXX	SLEEVE TYPE (SEE ABOVE)
---	SLEEVE SIZE
---	NUMBER OF SLEEVES

FDOT IRRIGATION NOTES:

1. REFER TO SHEET C0.01 FOR FDOT IRRIGATION NOTES.

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L4.06 IRRIGATION PLAN July 26, 2022 03:29:16pm K:\WPB_URS\043184061 - NE 4th AVE FTL\CAD\PlanSheets\L4.00 IRRIGATION PLAN.dwg

Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L4.07 IRRIGATION PLAN July 26, 2022 03:29:31pm K:\WPB_URS\043184061 - NE 4th AVE FTL CAD\Drawings\L4.00 IRRIGATION PLAN.dwg



Kimley-Horn
 1920 WEKIVA WAY #200
 WEST PALM BEACH, FL 33411
 PHONE: 561-845-0665 FAX:
 561-330-2245
 WWW.KIMLEY-HORN.COM
 REGISTRY #66
 © 2022 KIMLEY-HORN AND
 ASSOCIATES, INC.

SEAL
 JONATHAN D. HAIGH, PLA
 STATE LICENSE NUMBER
 LA #6666795
 07/26/2022

DATE: 07/01/2021
 DRAWN BY: AS
 DESIGNED BY: SHOWN
 CHECKED BY:
 FIELD BOOK:

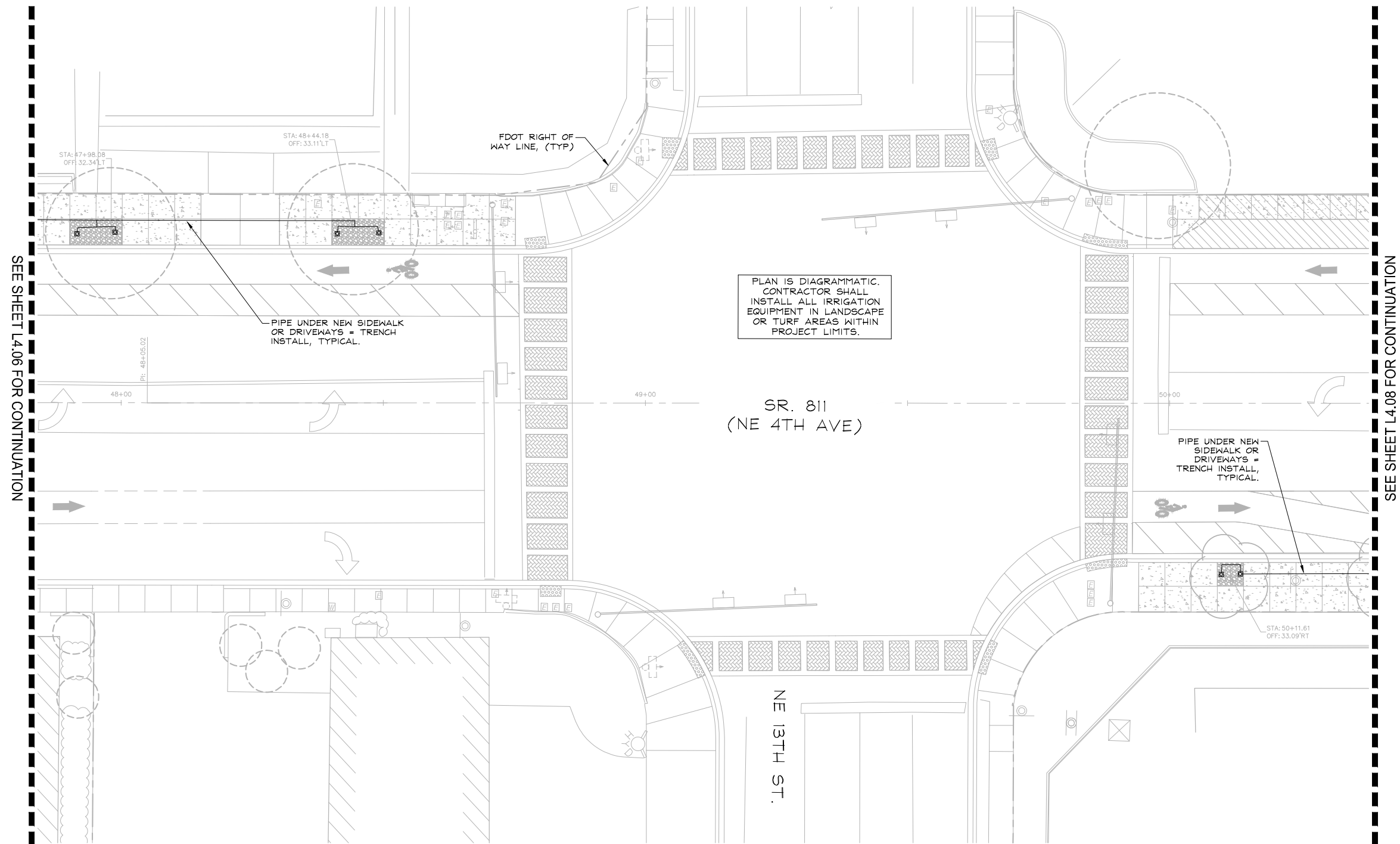
CITY OF FORT LAUDERDALE
 TRANSPORTATION
 &
 MOBILITY

 250 NE 3RD AVE, FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
 NE 4TH AVENUE STREETScape PROJECT
 E SUNRISE BLVD TO NE 13TH ST
 FORT LAUDERDALE, FL
 IRRIGATION PLAN

SHEET NO.
L4.07
 CAM 24-1145



SEE SHEET L4.06 FOR CONTINUATION

SEE SHEET L4.08 FOR CONTINUATION

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	Rain Bird RWS-B-C 1401
	Rain Bird PESB
	Backflow Preventer 1"
	Backflow Preventer 1"
	Backflow Preventer 1"
	K-Rain BL-KR1
	Irrigation Lateral Line: PVC Schedule 40
	Irrigation Mainline: PVC Schedule 40
	Pipe Sleeve: See Sleeve Legend

SLEEVE LEGEND:

	HDD = HORIZONTAL DIRECTIONAL DRILL (HDPE PIPE)
	TR = REMOVE AND REPLACE SIDEWALK, TRENCH SLEEVES IN PLACE (PVC SCH 40)
	JET = MISSILE BORE OR WATER JET SLEEVE UNDER SIDEWALK (PVC SCH 40)
	(X) X' XXX SLEEVE TYPE (SEE ABOVE) SLEEVE SIZE NUMBER OF SLEEVES

FDOT IRRIGATION NOTES:
 1. REFER TO SHEET C0.01 FOR FDOT IRRIGATION NOTES.


VERTICAL DATUM:
 ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG
811
 IT'S THE LAW!
 DIAL 811
 Know what's below.
 Call before you dig.
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

DATE: 07/01/2021	SCALE: AS SHOWN	FIELD BOOK:
DRAWN BY:	DESIGNED BY:	CHECKED BY:

CITY OF FORT LAUDERDALE
TRANSPORTATION & MOBILITY



290 NE 3RD AVE., FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 12557
NE 4TH AVENUE STREETScape PROJECT
E SUNRISE BLVD TO NE 13TH ST
FORT LAUDERDALE, FL
IRRIGATION PLAN

SHEET NO.
L4.08
DATE: 07/26/2022

HORIZONTAL DIRECTIONAL DRILL (HDD):
1. REFER TO FDOT SPECIFICATION SECTION 555.

- THE WORK CONSISTS OF FURNISHING AND INSTALLING UNDERGROUND IRRIGATION SLEEVING USING THE DIRECTIONAL BORING (HORIZONTAL DIRECTIONAL DRILLING, HDD) METHOD OF INSTALLATION. THIS WORK SHALL INCLUDE ALL SERVICES, EQUIPMENT, MATERIALS, AND LABOR FOR THE COMPLETE AND PROPER INSTALLATION, TESTING, RESTORATION OF UNDERGROUND UTILITIES AND ENVIRONMENTAL PROTECTION AND RESTORATION.
- THE PROPOSED PLAN INSTALLATION LOCATIONS ARE DIAGRAMMATIC; THE INTENT IS TO ACCOMMODATE THE IRRIGATION DESIGN AND TO AVOID EXISTING UTILITIES AND OBSTRUCTIONS. THE GENERAL HORIZONTAL LOCATION ARE SHOWN ON THE PLANS, BUT THE ENTRY AND EXIT LOCATIONS, AND MINIMUM CLEARANCES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR MAY UTILIZE AN ALTERNATIVE DRILL PATH THAN IS SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL DETERMINE IF A CASING PIPE IS NEEDED TO PREVENT FRAC-OUT OR UPHEAVAL, SETTLEMENT, CRACKING, MOVEMENT, OR DISTORTION OF THE SURFACE MATERIAL FOR ANY PORTION OF THE HDD INSTALLATION. IF THE CONTRACTOR DETERMINES THAT A CASING PIPE IS NEEDED, THEN THE MATERIALS AND LABOR FOR INSTALLING THE STEEL CASING PIPE SHALL BE INCLUDED IN THE BASE BID LINE ITEM UNIT COST FOR THE HDD PIPELINE.
- DIRECTIONAL DRILLING AND PIPE INSTALLATION SHALL BE DONE ONLY BY AN EXPERIENCED CONTRACTOR SPECIALIZING IN DIRECTIONAL DRILLING AND WHOSE KEY PERSONNEL HAVE AT LEAST FIVE (5) YEARS' EXPERIENCE IN THIS WORK. FURTHERMORE, THE CONTRACTOR SHALL HAVE INSTALLED DIRECTIONALLY DRILLED PIPE AT LEAST AS LARGE AS 12 INCHES IN DIAMETER, HAVE PERFORMED CROSSINGS AT LEAST 1,000 FEET IN LENGTH, AND SUCCESSFULLY INSTALLED AT LEAST 50,000 FEET IN LENGTH.
- HIGH DENSITY POLYETHYLENE (HDPE) DRILL PIPE SHALL BE USED IN HDD INSTALLATIONS.
- SUBMITTALS:
 - SPECIFICATIONS ON MATERIAL TO BE USED SHALL BE SUBMITTED TO ENGINEER. MATERIAL SHALL INCLUDE THE PIPE, FITTINGS AND ANY OTHER ITEM WHICH IS TO BE AN INSTALLED COMPONENT OF THE PROJECT.
 - PRIOR TO BEGINNING WORK, THE CONTRACTOR MUST SUBMIT TO THE ENGINEER A GENERAL WORK PLAN OUTLINING THE PROCEDURE AND SCHEDULE TO BE USED TO EXECUTE THE PROJECT. PLAN SHOULD DOCUMENT THE THOUGHTFUL PLANNING REQUIRED TO SUCCESSFULLY COMPLETE THE PROJECT, DESCRIBING THE NOISE REDUCTION PROGRAM, SOLIDS CONTROL PLAN, PILOT HOLE DRILLING PROCEDURE, THE REAMING OPERATION, AND THE PULLBACK PROCEDURE.
 - CONTRACTOR SHALL MAINTAIN A PROJECT LOG OF BORING OPERATIONS AND A GUIDANCE SYSTEM LOG WITH A COPY GIVEN TO ENGINEER AT COMPLETION OF PROJECT. AS-BUILT DRAWINGS SHALL BE CERTIFIED AS TO ACCURACY BY CONTRACTOR.
- CONTRACTOR SHALL NOTIFY ALL COMPANIES WITH UNDERGROUND UTILITIES IN THE WORK AREA VIA THE "811" UTILITY LOCATE SERVICE TO OBTAIN UTILITY LOCATES. ONCE THE UTILITIES HAVE BEEN LOCATED CONTRACTOR SHALL PHYSICALLY IDENTIFY THE EXACT LOCATION OF THE UTILITIES BY VACCUUM OR HAND EXCAVATION, WHEN POSSIBLE, IN ORDER TO DETERMINE THE ACTUAL LOCATION AND PATH OF ANY UNDERGROUND UTILITIES WHICH MIGHT BE WITHIN 20 FEET OF THE BORE PATH. CONTRACTOR SHALL NOT COMMENCE BORING OPERATIONS UNTIL THE LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE WORK AREA HAVE BEEN VERIFIED.
- THE CONTRACTOR IS REQUIRED TO BRING TO THE ATTENTION OF THE ENGINEER ANY KNOWN DESIGN DISCREPANCIES WITH THESE SPECIFICATIONS AND THE ACTUAL DRILLING METHODS THAT THE CONTRACTOR WILL BE PERFORMING. THIS SHALL BE STATED IN WRITING TO THE ENGINEER NO LATER THAN THE PRE-CONSTRUCTION MEETING.
- JOINING SHALL BE PERFORMED BY THERMAL BUTT-FUSION. POLYETHYLENE PIPE LENGTHS TO BE JOINED BY THERMAL BUTT-FUSION SHALL BE OF THE SAME TYPE, GRADE, AND CLASS OF POLYETHYLENE COMPOUND. BUTT-FUSION JOINING SHALL BE 100% EFFICIENT OFFERING A JOINT WELD STRENGTH EQUAL TO OR GREATER THAN THE TENSILE STRENGTH OF THE PIPE.
- CONTRACTOR SHALL INSTALL LATERALS AND/OR MAINLINE WITHIN HDPE HDD SLEEVES PRIOR TO PULLBACK.
- INSTALL TRACER WIRE, PER FDOT SPECIFICATIONS.
- HORIZONTAL DIRECTIONAL DRILLING SHALL CONSIST OF THE DRILLING OF A SMALL DIAMETER PILOT HOLE FROM ONE END OF THE ALIGNMENT TO THE OTHER, FOLLOWED BY ENLARGING THE HOLE DIAMETER FOR THE PIPELINE INSERTION. THE EXACT METHOD AND TECHNIQUES FOR COMPLETING THE DIRECTIONALLY DRILLED INSTALLATION WILL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THESE SPECIFICATIONS.
- IF THE CONTRACTOR DETERMINES THAT A CASING PIPE IS NEEDED ON THE PIPE ENTRY/EXIT SIDE, THEN THE CASING PIPE SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF THE PILOT BORE AND THE PILOT BORE SHALL BE CONSTRUCTED TO ALIGN WITH THE CASING PIPE BELOW THE GROUND SURFACE.
- THE ELEVATION OF THE SLEEVE AND/OR CARRIER PIPE AT THE LOCATION OF THE CONNECTION POINT OF THE DIRECTIONAL BORE SHALL BE 36" BELOW THE NATURAL GRADE AND SHALL BE IN A HORIZONTAL LOCATION FOR EASE OF CONNECTION TO CONTINUING LATERAL OR MAINLINE. SHOULD THIS NOT BE POSSIBLE DUE TO THE ACUTE ANGLE OF THE BORE, THE CONTRACTOR SHALL FURNISH AND INSTALL APPROPRIATE FITTINGS TO PROVIDE FOR A HORIZONTAL CONTINUATION.
- CONTRACTOR MAY DETERMINE THAT A SEPARATE SLEEVE HINDERS INSTALLATION BETWEEN SMALLER HDD RUNS. CONTRACTOR MAY INSTALL HDPE WITHOUT SLEEVE IN CERTAIN AREAS, ONLY IF AGREED UPON BY THE ENGINEER AND CITY. ALL UN-SLEEVED PIPE SHALL BE PRESSURE TESTED AFTER COMPLETION OF THE JOINT FUSING AND BEFORE THE PIPE PULLBACK.
- DURING THE DRILLING, REAMING, OR PULLBACK OPERATIONS, THE CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR HANDLING THE DRILLING FLUIDS, OR CUTTINGS AT THE ENTRY AND EXIT PITS. TO THE EXTENT PRACTICAL, THE CONTRACTOR SHALL MAINTAIN A CLOSED LOOP DRILLING FLUID SYSTEM, WHEN THE CONTRACTOR'S PROVISIONS FOR STORAGE OF THE FLUIDS OR CUTTINGS ON SITE ARE EXCEEDED, THESE MATERIALS SHALL BE HAULED AWAY TO A SUITABLE LEGAL DISPOSAL SITE. AFTER COMPLETION OF THE DIRECTIONAL DRILLING WORK, THE ENTRY AND EXIT PIT LOCATIONS SHALL BE PREPARED FOR LANDSCAPE INSTALLATION PER LANDSCAPE NOTES.

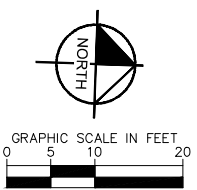
IRRIGATION SYSTEM NOTES

- CONTRACTOR SHALL REFER TO THE IRRIGATION DETAILS, IRRIGATION SCHEDULE, SPECIFICATIONS AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
 - IRRIGATION QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING.
 - ANY SUBSTITUTIONS FOR SPECIFIED IRRIGATION EQUIPMENT MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL FIELD ADJUST LOCATION OF IRRIGATION EQUIPMENT AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES AND/OR INTERFERE WITH EXISTING ABOVE GROUND ELEMENTS. ALL FIELD ADJUSTMENTS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
 - CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN CALENDAR DAYS OF NOTICE TO PROCEED.
 - IRRIGATION PLAN IS DIAGRAMMATIC. EQUIPMENT SHOWN ON IMPERVIOUS SURFACES IS FOR GRAPHIC CLARITY UNLESS OTHERWISE NOTED. CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITHIN LANDSCAPE AREAS IN PROPERTY LIMITS.
- THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE WITH A SOURCE PROVIDING 17 GPM AT 60 PSI.
- BUBBLER DESIGN PRESSURE: 30 PSI

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Rain Bird PESB	1"	Bubbler	14.00	9.1	55.23	59.96	1.82 in/h
2	Rain Bird PESB	1"	Bubbler	15.00	11.3	37.94	42.92	1.88 in/h
3	Rain Bird PESB	1"	Bubbler	4.00	10.9	32.82	35.9	1.98 in/h

- NOTES:**
- INSTALL ALL ABOVE GRADE EQUIPMENT OUTSIDE 4' HORIZONTAL CLEARANCE TO FACE OF CURB.



VERTICAL DATUM
ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

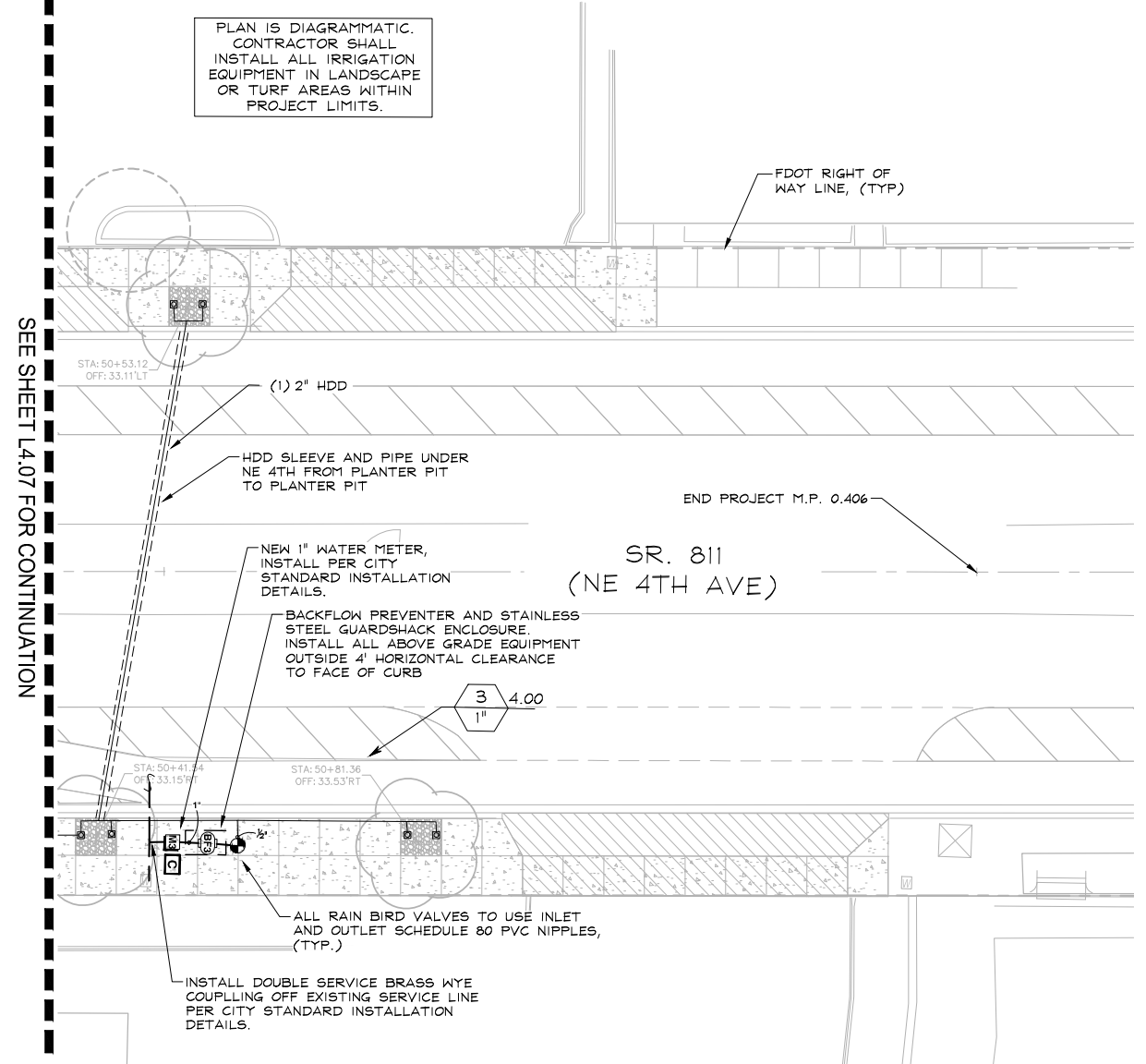
THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS BEFORE YOU DIG **811**

IT'S THE LAW!
DIAL 811 Know what's below. Call before you dig.

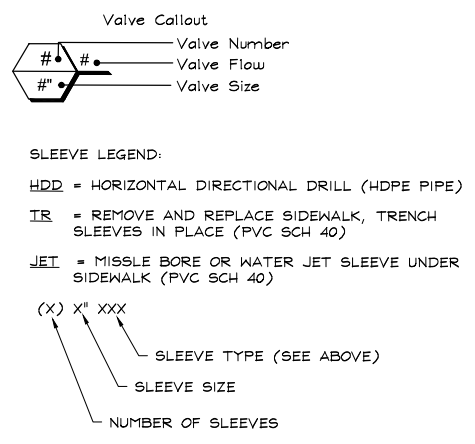
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PLAN IS DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL IRRIGATION EQUIPMENT IN LANDSCAPE OR TURF AREAS WITHIN PROJECT LIMITS.



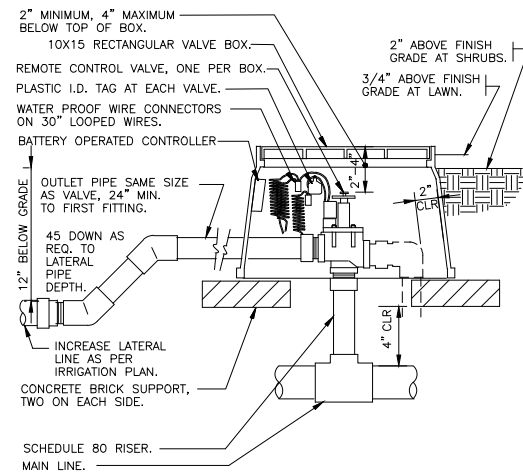
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	Rain Bird RWS-B-C 1401 Root Watering System with diameter x long with locking grate, semi-rigid mesh tube, and check valve. Rain Bird bubbler option as indicated: 1401 0.25 GPM.	66	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Rain Bird PESB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.	3	
	Backflow Preventer 1" Pressure Vacuum Breaker	1	
	Backflow Preventer 1" Pressure Vacuum Breaker	1	
	Backflow Preventer 1" Pressure Vacuum Breaker	1	
	K-Rain BL-KR1 1 station battery powered bluetooth controller	3	
	Water Meter 1" PROPOSED 1" METER	1	
	Water Meter 1" PROPOSED 1" METER	1	
	Water Meter 1" PROPOSED 1" METER	1	
	Irrigation Lateral Line: PVC Schedule 40	± 2,164 l.f.	
	Irrigation Mainline: PVC Schedule 40	± 91.9 l.f.	
	Pipe Sleeve: PVC Schedule 40	AS NEEDED	

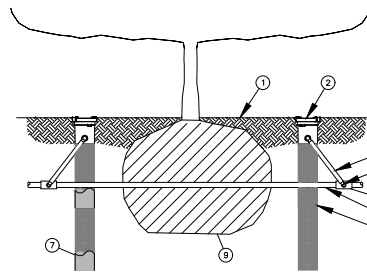


Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L4.08 IRRIGATION PLAN July 26, 2022 03:29:51pm K:\WPB_URS\043184061 - NE 4th AVE FTL CAD\VP\ansheets\L4.00 IRRIGATION PLAN.dwg

SEE SHEET L4.07 FOR CONTINUATION



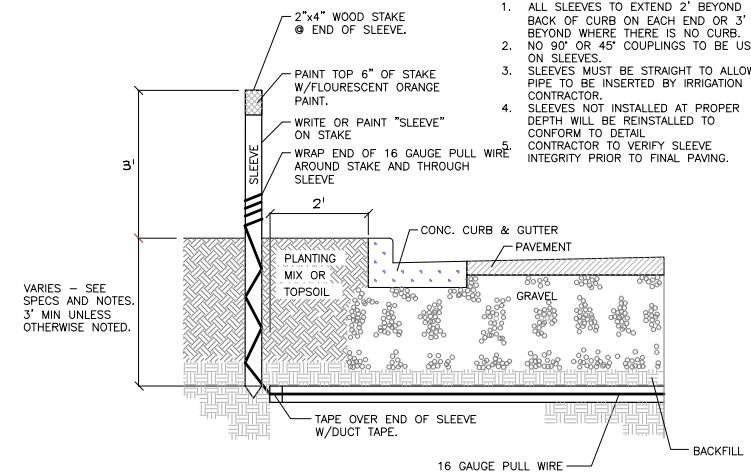
1 ELECTRIC REMOTE CONTROL VALVE
1 1/2" = 1'-0" DETAIL-FILE



- 1 FINISH GRADE/TOP OF FLEXI-PAVE (PER DETAIL L2.08/C)
- 2 ROOT WATERING SYSTEM: RAIN BIRD RWS
- 3 SWING ASSEMBLY (INCLUDED)
- 4 1/2" (1.3 CM) MALE NPT INLET (INCLUDED)
- 5 PVC SCH 40 TEE OR EL
- 6 PVC OR POLYETHYLENE LATERAL PIPE
- 7 OPTIONAL SOCK (RWS-SOCK) FOR SANDY SOILS
- 8 4" (10.2 CM) WIDE X 36" (91.4 CM) LONG RIGID BASKET WEAVE CANISTER (INCLUDED)
- 9 PLANT ROOT BALL

- NOTES:
1. POSITION 2 UNITS (OR MORE) EVENLY SPACED AROUND PLANT. FOR NEW TREES PLACE NEAR ROOT BALL. FOR EXISTING TREES PLACE HALF THE DISTANCE BETWEEN CANOPY EDGE AND TREE TRUNK.
 2. INSTALL PRODUCT WITH TOP EVEN WITH FLEXI-PAVE (PER DETAILS L2.08/C).
 3. RWS SERIES AVAILABLE IN THE FOLLOWING MODEL:
RWS-B-1402: 0.5 GPM (1.9 L/M)
 4. ADD 3/4" (1.9 CM) GRAVEL UNDER THE UNIT, COMPACTED TO PROVIDE SUPPORT TO THE BOTTOM OF THE UNIT AND AID IN DRAINAGE.
 5. ONCE RWS HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.
 6. INSTALL WITH RWS-SOCK PER EACH UNIT.

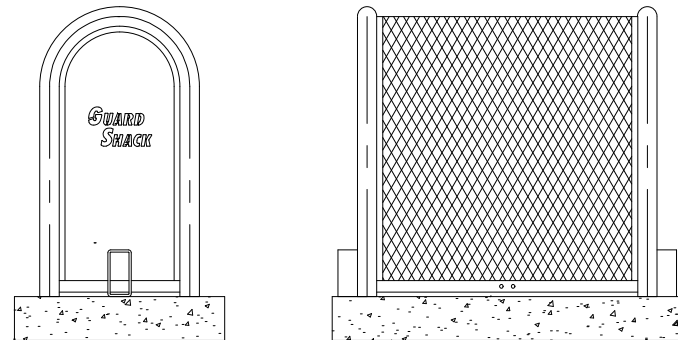
2 ROOT WATERING SYSTEM RWS



- NOTE:
1. ALL SLEEVES TO EXTEND 2' BEYOND BACK OF CURB ON EACH END OR 3' BEYOND WHERE THERE IS NO CURB. NO 90° OR 45° COUPLINGS TO BE USED ON SLEEVES.
 2. SLEEVES MUST BE STRAIGHT TO ALLOW PIPE TO BE INSERTED BY IRRIGATION CONTRACTOR. SLEEVES NOT INSTALLED AT PROPER DEPTH WILL BE REINSTALLED TO CONFORM TO DETAIL. CONTRACTOR TO VERIFY SLEEVE INTEGRITY PRIOR TO FINAL PAVING.

3 IRRIGATION SLEEVING
NTS

STANDARD GUARDSHACK™ ENCLOSURES



GUARDSHACK™ GENERAL SPECIFICATIONS

- All pipe shall be 1 1/4" schedule 40 A.S.T.M. A-53 Grade A-Electric Weld pipe.
- Angle Iron shall be 1" x 1" x 1/8" steel.
- Stainless steel units shall be 1 1/4" schedule 10 A.S.T. M. A-312 304 S.S.
- Expanded metal shall be 1/2" spacing x # 13 Ga. flattened diamond pattern steel.
- All stainless steel shall be sandblasted after fabrication to remove burrs, flashing and sharp edges.
- There shall be no exposed ends of expanded metal on the outside of the enclosure.
- Welding shall be a minimum of 1/4" long welds on 4" spacing.
- Standard Lock Shield Brackets shall be welded on each end of lift off enclosures.
- Hardware kits provided for mounting enclosures.
- On 304 S.S. units, all hinges, exposed hardware, and brackets shall be 304 S.S.
- All hardware shall be securely attached to enclosures. See HK-100 for hardware specifications.
- All enclosures shall withstand a minimum of 200 lbs. per square foot without any permanent deflection or distortion.
- 3/8" spacing between angle framework of enclosure and slab to prevent rusting. Only pipe ends to touch slab.

STAINLESS STEEL ELECTRO-POLISH FINISH

All 304 Stainless Steel units shall be chemically electro-polished to impart a lustrous finish to the unit.

Contractor to provide stainless steel Guardshack sized to fully enclose backflow prevented.

4 GUARDSHACK ENCLOSURE

Kimley-Horn
1920 WERKVA WAY #200
WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX:
561-330-2245
WWW.KIMLEY-HORN.COM
REGISTRY #66
© 2022 KIMLEY-HORN AND
ASSOCIATES, INC.

SEAL
JONATHAN D. HAIGH, PLA
STATE LICENSE NUMBER
LA #6666795
07/26/2022

DATE: 07/01/2021
DRAWN BY: JAS
DESIGNED BY: JAS
CHECKED BY: JAS
FIELD BOOK:

CITY OF FORT LAUDERDALE
TRANSPORTATION
&
MOBILITY
290 NE 3RD AVE. FORT LAUDERDALE, FL 33301

REVISIONS		DESCRIPTION
NO.	DATE	

PROJECT # 12557
NE 4TH AVENUE STREETScape PROJECT
E SUNRISE BLVD TO NE 13TH ST
FORT LAUDERDALE, FL
IRRIGATION DETAILS

SHEET NO.
L4.10
CAM 24-1145

VERTICAL DATUM
ELEVATIONS SHOWN HEREON ARE BASED ON THE
NORTH AMERICAN VERTICAL DATUM OF 1988.
NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE
ANTICIPATED. CONTRACTOR'S BID SHALL
INCLUDE CONSIDERATION FOR ADDRESSING THIS
ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS
BEFORE YOU DIG
811
IT'S THE LAW!
DIAL 811
Know what's below.
Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

K:\WPB_URG\043184061 - NE 4th AVE FTL CAD Plansheets\LA.10 IRRIGATION DETAILS.dwg
Plotted By: Hicks Jr., Darryl Sheet Set: NE 4th Avenue Layout: L4.02 IRRIGATION PLAN July 26, 2022 03:30:33pm

2.09 AUTOMATIC CONTROL VALVE

The automatic remote control valves shall be as specified on the plans, or approved equal.

2.10 GATE VALVES

- A. Gate valves for 3/4" through 2-1/2" shall be of brass or bronze construction, solid wedge, IPS threads, non-rising stem with wheel operating handle, for a continuous working pressure of 150 PSI.
- B. Gate valves for 3" and larger: Iron body, brass or bronze mounted ANKA gate valves, with a clear waterway equal to the full nominal diameter of the valve, rubber gasket for a continuous working pressure of 150 PSI. Valve shall be equipped with a square operating nut.

2.11 VALVE BOXES

- A. For gate valves, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings.
- B. For control valves 3/4" through 2", the drip valve assemblies, use AMETEK #10-181-014 box with #10-181-015 locking lid, or sized as necessary to effectively house the equipment.
- C. For control wiring splices, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings.

2.12 IRRIGATION WIRING

- A. Wiring used for connecting the electric control valves to the controllers shall be Type UF, 600 volt, single strand, solid copper with PVC insulation 4/64" thick. Size shall be 14 gauge, red for "hot" or lead wires, and common wire to be 14 gauge, white in color.
- B. Contractor shall perform an ohm test on ground to assure adequate protection against surges and indirect lightning strikes.

2.13 MISCELLANEOUS MATERIALS

- A. Drainage Backfill: Cleaned gravel or crushed stone, graded from 1" maximum to 3/4" minimum.
- B. Metalized Underground Tape: The detectable, underground utility marking tape shall consist of a minimum: 5 mil (0.005") overall thickness; five-ply composition; ultra-high molecular weight, 100% virgin polyethylene; acid, alkaline and corrosion resistant; with no less than 150 pounds of tensile break strength per 6" width; color-code impregnated with color stable, lead-free, organic pigments suitable for direct burial. Tapes utilizing reprocessed plastics or resins shall not be acceptable. The detectable, underground utility marking tape shall have a 35 gauge (0.0035") solid aluminum foil, core encapsulated within a 2.55 mil (0.00255") polyethylene backing and a 0.6 mil (0.006") PET cover coating. The laminate on each side shall consist of a 0.75 mil (0.00075") layer of hot LPDE, poly-fusing the "sandwich" without use of adhesives.

2.14 AUTOMATIC CONTROL SYSTEM

An Independent Station Controller: Furnish a solid state controller, as specified on the plans. Each station shall be capable of timing from zero (0) minute to 99 minutes per station in one (1) minute increments.

Each station shall be capable of operating two (2) 7VA electric valve-in-head solenoids.

The stand-alone controller shall have two (2) possible programs.

The stand-alone controller shall provide global percentage increase/decrease (water budget) for all stations simultaneously, from ten (10) to two hundred (200) percent, in ten (10) percent increments.

All stations shall be able to be turned on/off manually by operating timing mechanism or by manual switch at station output.

The stand-alone controller shall incorporate an integral MOV surge protection into the terminal block for each of its 24 VAC field wire outputs. Controller power input wires will also incorporate surge protection.

The control panel shall provide continuous display time. It shall have alphanumeric displays of descriptive English menus and legend identifiers with cursor selection of function and precision value adjustment by rotary dial input.

The stand-alone controller shall be UL listed and FCC approved.

The stand-alone controller shall have 117 VAC, 60 Hz input, 26.5 VAC, 60 Hz output for operating 24 VAC solenoids.

The stand-alone controller cabinet shall be a lockable and weather-resistant outdoor cabinet. Mount as noted on plans.

The controller shall be equipped with lightning protection, by the Contractor, on both the primary (120v) and each secondary (24v) circuit. The controller circuits shall be grounded to a copper clad grounding rod located at each controller.

The controller shall be equipped for a water conservation device, as specified.

PART III: EXECUTION

3.01 INSPECTION

The Contractor shall examine the areas and conditions under which landscape irrigation system is to be installed and notify the Landscape Architect in writing of conditions detrimental to the proper and timely completion of the work. The Contractor shall proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Landscape Architect.

3.02 PREPARATION

The Contractor shall provide sleeves to accommodate piping under walks or paving. The Contractor shall coordinate with other trades and install to accurate levels prior to paving work. Cutting and patching of paving and concrete will not be permitted. The Contractor shall maintain all warning signs, shoring, barricades, flares and red lanterns, as required by any local codes, ordinances or permits.

3.03 TRENCHING AND BACKFILLING

- A. Excavation: The Contractor shall stake out the location of each run of pipe, sprinkler heads, sprinkler valves and isolation valves prior to trenching. Excavation shall be open vertical construction sufficiently wide to provide free working space around the work installed and to provide ample space or backfilling and tamping. Trenches for pipe shall be cut to required grade lines, and compacted to provide accurate grade and uniform bearing for the full length of the line. The bottom of the trenches shall be free of rock or other sharp edged objects. Minimum cover shall be as follows:

Pipe and Wire Depth	
Pressure Mainline	18" at top of pipe from Finish Grade
Lateral Piping (rotor)	12" at top of pipe from Finish Grade
Lateral Piping (pop-up)	12" at top of pipe from Finish Grade
Control Wiring	Side of main Line

- B. Minimum Clearances: All pipelines shall have a minimum clearance of six inches from each other and from lines of other crafts. Parallel lines shall not be installed directly over one another. No lateral line shall be installed in the main-line trench.

3.04 INSTALLATION OF PIPING

- A. PVC Pipe and Joints: The Contractor shall not install solvent wild pipe when air temperature is below 40° F. Installation shall be in accordance with the manufacturer's instructions.

- 1. Only the solvent recommended by the pipe manufacturer shall be used. All PVC pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer, and it shall be the Contractor's full responsibility to make arrangements with the pipe manufacturer for any field assistance that may be necessary. The Contractor shall assume full responsibility for the correct installation.

3.05 BACKFILLING PROCEDURES

Initial backfill on PVC lines shall be pulverized native soil, free of foreign matter. Within radius of 4" of the pipe shall be clean soil or sand. Plant locations shall take precedence over sprinkler and pipe locations. The Contractor shall coordinate the location of trees and shrubs with the routing of lines and final head locations.

- A. Backfill and Compaction: The Contractor shall leave trenches slightly mounded to allow for settlement after the backfilling is completed. The Contractor shall clean the site of the work continuously of excess waste materials as the backfilling progresses, and leave in a neat condition. No trenches shall be left open for a period of more than 48 hours. Protect open trenches as required.

The Contractor shall carefully backfill excavated materials approved for backfilling, consisting of earth, loam, sand, and other approved materials, free of rock and debris over 1" in size. Backfill shall be compacted to original density of surrounding soil without dips, sunken areas, or irregularities.

The Contractor shall conform to DOT requirements for methods and required compaction percentages, for roads and paving.

The Contractor shall hand place the first 6" of backfill (or to top of pipe) and have it walked on so as to secure the position of the pipe and wire.

No wheel rolling will be allowed. The Contractor shall remove rock or debris extracted from backfill materials and dispose of offsite. The Contractor shall fill any voids left in backfill with approved backfill materials.

- B. Existing Lawns: Where trenching is required across existing lawns, uniformly cut strips of sod 6" wider than trench. The Contractor shall remove sod in rolls of suitable size for handling and keep moistened until replanted. The Contractor shall replant sod within 48 hours after removal, roll and water generously. The Contractor shall resod any areas not in healthy condition equal to adjoining lawns 10 days after replanting.

- C. Seeded Area: Trenching will be required across existing seeded areas, primarily roadway edging. The Contractor shall conform to the requirements of seeding, Section 02930 for the reseeding of the disturbed trench area.

- D. Pavements: Jack and bore or directional bore piping under paving materials as per local regulatory codes. No cutting and patching of pavement will be permitted.

3.06 VALVES

- A. Isolation Valves: Shall be sized corresponding to adjacent pipe size. Specified valve boxes shall be installed flush with finish grade in such a manner that surface forces applied to their exposed area will not be transmitted to the piping in which the valve is installed nor any other piping, wiring or other lines in the vicinity of said valves.

- B. Gate Valves: Install where shown, in valve boxes.

- C. Electric Control Valves: Shall be installed in specified valve boxes. The valve shall have 6" of 3/4" pea gravel installed below the bottom of the valve. If the valve box does not extend to the base of the valve, a valve box extension shall be installed. Electric control valves shall be installed where shown and grouped together where practical. The Contractor shall place no closer than 24" to walk edges, bikeway edges, buildings and walls. The Contractor shall adjust the valve to provide flow rate or rated operating pressure required for each sprinkler circuit.

3.07 CONDUIT AND SLEEVES

- A. Conduit and Sleeves for Control Wiring and Main/Lateral Pipe: The Contractor shall provide and install where necessary. Contractor shall coordinate locations of previously installed sleeving with the General Site Contractor.

The Contractor shall coordinate installation of sleeves with work of other disciplines.

3.08 CONTROLS

- A. The Contractor shall connect electric control valves to controllers in a clockwise sequence to correspond with station settings beginning with Stations 1, 2, 3, etc. Automatic controllers shall be provided and installed by the Contractor as noted on the drawings. All zones will be labeled on the controller.

- B. Controllers shall be equipped with lightning protection and grounded to a standard 5/8" copper clad steel ground rod driven a minimum of 8' into the ground and clamped.

- C. The electrical service to the controllers shall be performed by an electrical subcontractor in compliance with NEC requirements.

3.09 CONTROL WIRE

- A. Control wiring between the controller and electric valves shall be buried in main line trenches or in separate trenches. Electrical connection at valve will allow for pigtail so solenoid can be removed from valve with sufficient slack to allow ends to be pulled 12" above ground for examination and cleaning.

- B. An expansion loop shall be provided at every valve at 100' o.c. Expansion loop shall be formed by wrapping wire at least eight times around a 3/4" pipe and withdrawing pipe.

- C. The wire shall be bundled and taped every ten feet. The wire shall be laid in the trench prior to installing the pipe being careful to install wire beneath and 6" to the side of the main pipe line.

- D. Electrical connections to electric control valves shall be made with Rainbird Pen-Tite or Techdel GT-3-GEL - Tite connectors or equal.

Power Connections: Electrical connections to power and signal wires shall be made using 3M 82-A2 power cable splice kits.

3.10 SPRINKLER HEADS

- A. General Provisions:

- 1. Sprinkler heads shall be installed as designated on the shop drawings. Heads shall be installed on flexible PVC. Top to be flush with finish grade or top of curb.

- 2. Spacing of heads shall not exceed the maximum indicated on the shop drawings (unless directed by the Landscape Architect). In no case shall the spacing exceed the maximum recommended by the manufacturer.

- B. Head Types:

- 1. Pop-up - Rotary Sprinkler Heads: Shall be installed on flex joint and be set with top of head flush with finish grade. Heads installed at curb shall have 6" to 10" between perimeter of head and concrete. Heads placed at edge of pavement having no curb shall be installed 24" from edge of pavement.

- 2. Spray Pop-up Sprinkler Heads: Shall be installed on flexible PVC and be set with top of head flush with finished grade. Sprinkler heads placed adjacent to curbs will be installed 9" from concrete. Sprinkler heads placed adjacent to pavement having no curb shall be installed 24" from the edge of pavement.

3.11 COMPLETION

- A. Flushing: Before sprinkler heads are set, the Contractor shall flush the lines thoroughly to make sure there is no foreign matter in the lines.

The Contractor shall flush the main lines from dead end fittings for a minimum of five minutes under a full head of pressure.

- B. Testing: The Contractor shall notify Landscape Architect and Owner forty-eight (48) hours in advance of testing.

Prior to backfilling of main line fittings, Contractor shall fill the main line piping with water, in the presence of the Owner/Landscape Architect, taking care to purge the air from it by operating all the sprinkler control valves one or more times and/or such other means as may be necessary. A small, high pressure pump or other means of maintaining a continuous water supply shall be connected to the main line and set so as to maintain 100 PSI in the main line system for two (2) hours without interruption. When this has been accomplished and while the pressure in the system is still 100 PSI, leakage testing shall be performed in accordance with ANKA Standard C-600. Pressure readings shall be noted and make up water usage shall be recorded. Should the rate of make up water usage indicate significant leakage, the source of such leakage shall be found and corrected and the system then retested until the Owner/Landscape Architect is satisfied that the system is reasonably sound. Lateral line testing shall be conducted during the operating testing of the system by checking visually the ground surface until no leaks in this portion of the system are evident. Leaks shall be repaired or paid for by the Contractor at any time they appear during the warranty period.

- C. Adjustment and Coverage of System: Coordinate pressure testing with adjustments and coverage test of system so both may occur at the same time. The Contractor shall balance and adjust the various components of the system so that the overall operation of the system is most efficient. This includes a synchronization of the controllers, adjustments to pressure regulators, pressure relief valves, part circle sprinkler heads, and individual station adjustments on the controllers.

3.12 WARRANTY

- A. The Contractor shall fully warrant the landscape irrigation system for a period of one (1) year after the written final acceptance and will receive a written confirmation from the Landscape Architect that the warranty period is in effect.


- B. During the warranty period, the Contractor will enforce all manufacturer's and supplier's warranties as if made by the Contractor himself. Any malfunctions, deficiencies, breaks, damages, disrepair, or other disorder due to materials, workmanship, or installation by the Contractor and his suppliers shall be immediately and properly corrected to the proper order as directed by the Owner and/or Landscape Architect.

- C. Any damages caused by system malfunction shall be the responsibility of the Contractor who shall make full and immediate restoration for said damages.

VERTICAL DATUM
ELEVATIONS SHOWN HEREON ARE BASED ON THE
NORTH AMERICAN VERTICAL DATUM OF 1988.
NAVD '88 ELEV. + 1.565' = NGVD '29 ELEVATION

THE PRESENCE OF GROUNDWATER SHOULD BE
ANTICIPATED. CONTRACTOR'S BID SHALL
INCLUDE CONSIDERATION FOR ADDRESSING THIS
ISSUE AND OBTAINING ALL NECESSARY PERMITS.

CALL 2 WORKING DAYS
BEFORE YOU DIG



IT'S THE LAW!
DIAL 811

Know what's below.
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.




1920 WERKVA WAY #200
WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX:
561-330-2245
WWW.KIMLEY-HORN.COM
REGISTRY #66
© 2022 KIMLEY-HORN AND
ASSOCIATES, INC.

JONATHAN D. HAIGH, PLA
STATE LICENSE NUMBER
LA #6666795
07/26/2022

DATE: 07/01/2021
DRAWN BY: JAS
DISIGNED BY: JAS
CHECKED BY: JAS
FIELD BOOK:

CITY OF FORT LAUDERDALE
TRANSPORTATION
&
MOBILITY



290 NE 3RD AVE, FORT LAUDERDALE, FL 33301

NO.	DATE	BY	CHK'D	REVISIONS	
				DESCRIPTION	

PROJECT # 12557
NE 4TH AVENUE STREETScape PROJECT
E SUNRISE BLVD TO NE 13TH ST
FORT LAUDERDALE, FL
IRRIGATION NOTES

SHEET NO.
L4.12
CAM 24-1145

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

EXHIBIT C

MAINTENANCE PLAN FOR LANDSCAPE IMPROVEMENTS

This Exhibit forms an integral part of the LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT between the Florida Department of Transportation and the AGENCY.

Please see attached

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

MAINTENANCE PLAN Landscape Improvements

State Road No(s): SR 811 (NE 4th Ave) from E Sunrise Blvd (M.P. 0.000) to
NE 13th St (M.P. 0.406)
Permit or FM No(s): 2021-L-491-00011
RLA of Record: Jonathan D. Haigh, PLA
Maintaining Agency: City of Fort Lauderdale
Date: October 28, 2024

The purpose of a plan for the Landscape Improvements maintenance practices is to allow the plant material on the project to thrive in a safe and vigorous manner while fulfilling their intended purpose and conserving natural resources. Plantings and all other landscape improvements within FDOT right of way shall be maintained to avoid potential roadway hazards and provide clear visibility, accessibility, clearance, and setbacks as set forth and required in the following Florida Department of Transportation (FDOT) governing standards and specifications: FDOT Standard Plans, FDOT Plans Design Manual and FDOT Standard Specifications for Road and Bridge Construction, as amended by contract documents, and all other requirements set forth by the District 4 Operations Maintenance Engineer.

Part I of the Maintenance Plan describes general maintenance requirements and recommendations that are standard for all projects. Part II provides recommendations prepared by the Registered Landscape Architect of Record specific to the attached approved plans.

PART I. GENERAL MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS:

WATERING REQUIREMENTS

Watering is a critical concern for not only the maintenance of healthy plant material but also for observing water conservation practices. The amount of water to apply at any one time varies with the weather, drainage conditions and water holding capacity of the soil. For plant materials that have been established, it is imperative that any mandated water restrictions be fully conformed to on FDOT roadways.

Proper watering techniques should provide even and thorough water dispersal to wet the entire root zone, but not saturate the soil or over-spray onto travel lanes.

IRRIGATION SYSTEM

The Agency shall ensure there are no roadway overspray or irrigation activities during daytime hours (most notably "rush hour" traffic periods). It is imperative the irrigation controller is properly set to run early enough that the watering process will be entirely completed before high traffic periods, while adhering to mandated water restrictions. To ensure water conservation, the Agency shall monitor the system for water leaks and the rain sensors to ensure they are functioning properly so that the system shuts down when there is sufficient rainfall.

MULCHING

Mulch planting beds to prevent weed growth, retain moisture to the plants, protect against soil erosion and nutrient loss, maintain a more uniform soil temperature, and improve the appearance of the

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

planting beds. Do not mound mulch against the trunks of trees, palms, and the base of shrubs to allow air movement which aids in lowering disease susceptibility. Cypress mulch is prohibited on state right of way.

INTEGRATED PLANT MANAGEMENT

An assessment of each planting area's soil is recommended to periodically determine the nutrient levels needed to sustain healthy, vigorous plant growth.

Palms, shrubs, trees, and turf areas shall be fertilized in such a manner and frequency to ensure that the plant material remains healthy and vigorously growing. Please be alert to changes in fertilization types per University of Florida, Institute of Food and Agricultural Services (I.F.A.S.) recommendations. Establishment of an integrated pest management program is encouraged to ensure healthy plants, which are free of disease and pests.

PRUNING

All pruning, and the associated safety criteria, shall be performed according to American National Standard Institute (ANSI) A300 standards and shall be supervised by an International Society of Arboriculture (ISA) Certified Arborist. Pruning shall be carried out with the health and natural growth of plant materials in mind, to achieve the FDOT requirements for maintaining clear visibility for motorists, and provide vertical clearance for pedestrian, bicyclist, and truck traffic where applicable. Visibility windows must be maintained free of view obstructions, and all trees and palms must be maintained to prevent potential roadway and pedestrian hazards. All palms are to be kept fruit free. The understory plant materials selected for use within the restricted planting areas (Limits of Clear Sight) are to be mature height in compliance with the *FDM Window Detail*. Vertical clear zones for vegetation heights over roadways and sidewalks must meet the requirements of the *FDOT Maintenance Rating Program* (MRP) standards. See Reference pages. The R.L.A. of Record will provide the specific pruning heights for mature or maintained height and spread of all plant material to achieve the design intent shall be noted in Part II., Specific Project Site Maintenance Requirements and Recommendations.

STAKING AND GUYING

All staking materials are to be removed after one year or as directed by the RLA of Record.). Any subsequent staking and guying activities by the Agency must adhere to *FDOT Standard Plans* guidelines (See Index 580-001). The Agency shall closely monitor staking and guying attachment materials so that they are securely fastened to avoid potential roadway hazards.

TURF MOWING

All grassed areas are to be mowed and trimmed with sufficient frequency to maintain a deep, healthy root system while providing a neat and clean appearance to the urban landscape. All turf efforts, mowing, curb/sidewalk edging and turf condition, must at a minimum, meet *FDOT Maintenance Rating Program* (MRP).

LITTER CONTROL

The project site shall remain as litter free as practicable. It is recommended to recycle this litter to avoid unnecessary waste by its reuse. Litter removal efforts must meet *FDOT Maintenance Rating Program* (MRP) standards.

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

WEEDING/HERBICIDE

All planting areas shall be maintained as weed free as practicable by enlisting integrated pest management practices in areas specified on the plans and maintaining proper mulch levels. Extreme care is recommended when using a chemical herbicide to avoid overspray onto plant materials. It is the applicator's responsibility to restore any damage resulting from overspray to the plantings, per the approved plans.

PLANT REPLACEMENT

Plant replacement shall be the same species and specification as the approved plan. Move and replace all plant materials that may conflict with utility relocations and service. Only plants graded Florida #1 or better, per the *Florida Department of Agriculture and Consumer Services, Grades and Standards for Nursery Plants* are permitted on FDOT roadways. Should it become necessary to change the species, a permit is required from FDOT for approval by the FDOT District Landscape Architect.

TREE CELL STRUCTURES

Underground tree cells shall be maintained in such a manner as to prolong the life of the structure and prevent potential safety hazards. If the structures fail or become damaged, they shall be replaced with the same type and specification as the approved plan.

LANDSCAPE ACCENT LIGHTING

Landscape accent lighting shall be maintained in such a manner as to prolong the life of the lighting fixture and prevent potential safety hazards. If the lighting fixtures and their system become damaged, they shall be replaced with the same type and specification as the approved plan. Landscape lighting shall meet requirements for the sea turtle nesting and hatching.

HARDSCAPE (SPECIALTY SURFACING)

All tree grates and specialty surfacing (if applicable) shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the surfacing and tree grates. Final surface tolerance from grade elevations shall, at a minimum, meet the most current FDOT Maintenance Rating Program Handbook for a sidewalk; ADA accessible sidewalk; and FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on The State Highway System. If the specialty surfacing or tree grates become damaged, they shall be replaced with the same type and specification as the approved plan.

HARDSCAPE (CONCRETE PAVERS)

All concrete pavers (if applicable) shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the pavers. Final surface tolerance from grade elevations shall, at a minimum, meet the most current *Interlocking Concrete Pavement Institute (ICPI), Guide Specifications for Pavers on an Aggregate Base, Section 23 14 13 Interlocking Concrete Pavers, Part 3.05*. If the concrete pavers become damaged, they shall be replaced with the same type and specification as the approved plan.

It shall be the responsibility of the AGENCY to maintain all signs located within a non-standard surfacing area. Such maintenance to be provided by the AGENCY shall include repair and replacement of the sign panel, post, and base.

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

HARDSCAPE (NON-STANDARD TRAVELWAY SURFACING)

It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway, including asphalt pavement (if applicable), caused, or contributed by the installation or failure of non-standard surfacing, and/or the header curb, on the Department of Transportation right of way within the limits of this Agreement. Pavement restoration areas or “patches” will have a minimum length of 10-ft, measured from the edge of the header curb, and a width to cover full lanes for each lane affected by the restoration.

Pavement restoration will be performed in accordance with the most current edition of the *FDOT Standard Specifications for Road and Bridge Construction*, and the *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System*.

SITE FURNISHINGS

Site furnishing such as Trash Receptacles, Benches, Bollards and Bicycle Racks shall be maintained in such a manner as to prolong the life of the fixture and prevent potential safety hazards. If the fixtures and their overall function and mounting systems become damaged, they shall be replaced with the same type and specification as the approved plan.

MAINTENANCE OF TRAFFIC CONTROL

Reference the FDOT website regarding the selection of the proper traffic control requirements to be provided during routine maintenance and / or new installations of this DOT roadway.

**VEGETATION MANAGEMENT AT OUTDOOR ADVERTISING (ODA)
(IF APPLICABLE)**

To avoid conflicts with permitted outdoor advertising, please reference the State of Florida website regarding the vegetation management of outdoor advertising. This website provides a portal to search the FDOT Outdoor Advertising Inventory Management System Database. The database contains an inventory of outdoor advertising structures, permits and other related information maintained by the Department.

Also, reference the *Florida Highway Beautification Program* website link for *Vegetation Management at ODA signs* Florida Statutes and Florida Administrative Code related to vegetation management at outdoor advertising sign, permit applications for vegetation management and determining mitigation value of roadside vegetation.

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

PART II.
SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS

1. Design intent is to provide additional tree canopy cover over the sidewalks and provide comfort for pedestrians.
2. All trees and palms are intended to be maintained at mature height and spread. Tree Trimming shall be in accordance with the Florida Department of Transportation Maintenance Rating Program Standards. (Refer to Part I Pruning, for clear sight window and vertical clear zone pruning requirements.)
3. Remove suckering growth from base and clear trunk areas for single trees quarterly.
4. To maintain the intended appearance of all palms, apply the latest palm fertilizer recommended by the University of Florida IFAS Extension per the manufacturer's specifications.
5. Do not remove fronds from self-cleaning palms, unless damaged. Palms with persistent fronds shall only have dead fronds removed, do not remove any green fronds. If it is deemed necessary to prune a palm's fronds, no fronds shall be trimmed above 3 o'clock and 9 o'clock on the horizontal plain.
6. Evaluate plant material on a quarterly basis for pests, diseases, drought stress or general decline. If required, follow the integrated pest management program established by the Agency to ensure healthy plants.
7. Inspect the FlexiPave surfaces (in tree pits) on a quarterly basis for potential unraveling, cracking or other issues in the surface. Provide repairs by following manufacturer's specifications.
8. Inspect the irrigation system performance on a quarterly basis to ensure the system is providing 100% coverage, does not have sections of low pressure, heads and valves are clean and clear of debris and any damaged irrigation components (i.e., spray nozzles, spray heads, valve boxes, etc.) are repaired or replaced.

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

REFERENCES (Sept. 2024)

This reference list is provided as a courtesy. The list may not contain the most current websites. The most current references must be accessed for up-to-date information.

Accessible Sidewalk (ADA)

- *Accessible Sidewalks and Street Crossings* <https://fdotwww.blob.core.windows.net>
- *Sidewalks and Trails* <https://www.fdot.gov/roadway/ada/sidewalksandtrails.shtm>
- *ADA Standards for Accessible Design* <https://www.ada.gov/law-and-regs/design-standards/>

Building Codes & Standards, Florida Department of Community Affairs (DCA),
2017 Florida Building Code, Chapter 11 Florida Accessibility Code for Building Construction Part A
http://www.floridabuilding.org/fbc/workgroups/Accessibility_Code_Workgroup/Documentation/CHAPTER_11_w_fl_a_specifics.htm

American National Standard Institute, *ANSI A300, (Part 1) for Tree Care Operations – Trees, Shrub, and Other Woody Plant Maintenance – Standard Practices (Pruning)*, available for purchase
<http://webstore.ansi.org> / <https://tcimag.tcia.org/training/introducing-the-newly-designed-ansi-a300-tree-care-standards/>

Florida Dept. of Agriculture and Consumer Services, Division of Plant Industry, Florida Grades and Standards for Nursery Plants 2022
<https://sfyl.ifas.ufl.edu/media/sfylifasufledu/hillsborough/docs/pdf/environmentalhort/grades-and-standards-for-nursery-plants-2022.pdf>

Florida Exotic Pest Plant Council Invasive Plant Lists
<https://www.floridainvasives.org/plant-list/2023-invasive-plant-species/>

Florida Irrigation Society <http://www.fisstate.org>

Florida Power and Light (FPL) - Right Tree, Right Place
http://www.fpl.com/residential/trees/right_tree_right_place.shtml

FLORIDA DEPARTMENT OF TRANSPORTATION,

Maintenance Specifications Workbook <https://www.fdot.gov/programmanagement/maintenance>

- *Section 580 Landscape Installation* https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/maintenance/fy-2024-25/spm5800000-724-i19425.pdf?sfvrsn=15564aa7_1

FDOT Standard Plans for Design, Construction, Maintenance and Utility Operations on the State Highway System, *Standard Plans - FY 2024-25* <https://www.fdot.gov/design/standardplans/current>

- *Index Series 102-600 Traffic Control through Work Zones*
https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2024/idx/102-600.pdf?sfvrsn=3244c6c7_2
- *Index 580-001 Landscape Installation* https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2024/idx/580-001.pdf?sfvrsn=3963729c_2
- *Index 591-001 Landscape Irrigation Sleeves* https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2024/idx/591-001.pdf?sfvrsn=1fed4bc_2

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

FDOT Design Manual for Design, Construction, Maintenance and Utility Operations on the State Highway System, <https://www.fdot.gov/roadway/fdm/default.shtm>

- Chapter 212.11 Clear Sight Triangles https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/roadway/fdm/2024/2024fdm212intersections.pdf?sfvrsn=428d0a44_3
- Chapter 215.2.3 Clear Zone Criteria and 215.2.4 Lateral Offset, Table 215.2.1 Clear Zone Width, Table 215.2.2 Lateral Offset Criteria (for Trees) https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/roadway/fdm/2024/2024fdm215roadsidesafety.pdf?sfvrsn=66e0f4a3_2

Landscape Architecture Website

<https://www.fdot.gov/roadway/landscape-architecture/landscape-architecture-programs>

Maintenance Rating Program Handbook <https://www.fdot.gov/maintenance/mainratingprogram.shtm>

Outdoor Advertising Database <https://www.fdot.gov/rightofway/OutdoorAdvertising.shtm/new-outdoor-advertising-site>

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

EXHIBIT D

PATTERNED PAVEMENT

This Exhibit forms an integral part of the MAINTENANCE MEMORANDUM OF AGREEMENT between the Florida Department of Transportation and the AGENCY.

- (1) Prior to acceptance by the DEPARTMENT, all lanes for each of the stamped asphalt crossings projects shall be tested for friction in accordance with ASTM E 274-06. All costs for friction testing will be the responsibility of the AGENCY. The initial friction resistance shall be at least **35** obtained at 40 mph with a ribbed test tire (FN40R) or equivalent. Failure to achieve this minimum resistance shall require all deficient crosswalk areas to be removed to their full extent (lane-by-lane) and replaced with the same product installed initially. If more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the Qualified Products List (QPL). All lanes receiving new installations shall again be friction tested within 60-90 days of their acceptance by the local AGENCY. The initial friction resistance of each new installation shall be at least **35** (FN40R) or equivalent. Failure to achieve this minimum resistance shall require all deficient areas be removed to their full extent (lane-by-lane) and replaced with the same product installed initially. If more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the DEPARTMENT'S Qualified Products List (QPL), or replaced with conventional pavement.
- (2) The results of all friction tests and condition surveys shall be sent to the **Operations Engineer** at the local FDOT District Four Operations Center located at Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300, with a cover letter either certifying that the crosswalks comply with the above stated requirements; or what remedial action will be taken to restore the friction and/or integrity of the crosswalk area.
- (3) When remedial action is required in accordance with the above requirements, the local AGENCY at its own expense shall complete all necessary repairs within 90 days of the date the deficiency was identified.
- (4) Should the local AGENCY fail to satisfactorily perform any required remedial work or testing in accordance with this agreement, the DEPARTMENT reserves the right to replace the patterned pavement with conventional pavement and bill the local AGENCY for this cost. No more than two full stamped asphalt pavement depth repairs shall be made to an area without first resurfacing the pavement to its full depth.

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

EXHIBIT E

PATTERNED PAVEMENT MAINTENANCE

This Exhibit forms an integral part of the MAINTENANCE MEMORANDUM OF AGREEMENT between the Florida Department of Transportation and the AGENCY.

"Maintenance" of all patterned pavement crosswalks in these Agreements shall be defined, as a minimum, to include its frictional characteristics and integrity as follows:

- (1) Within 60 days of project acceptance by the Department, all lanes of each patterned crosswalk shall be evaluated for surface friction. The friction test shall be conducted using either a locked wheel tester in accordance with **FM 5-592 (Florida Test Method for Friction Measuring Protocol for Patterned Pavements)** or Dynamic Friction Tester in accordance with **ASTM E1911**. **All costs for friction testing are the responsibility of the AGENCY.**
- (2) The initial friction resistance shall be at least **35** obtained at 40 mph with a ribbed tire test (FN40R) or equivalent (see FM 5-592). Failure to achieve this minimum resistance shall require all deficient crosswalk areas to be removed to their full extent (land-by-land) and replaced with the same product installed initially. The AGENCY is responsible for all costs associated with the removal and replacement of the crosswalk. If the Department determines that more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the Qualified Products List (QPL) or replaced with conventional pavement.
- (3) Approximately **one year** after project acceptance and **every two years** thereafter and for the life of the adjacent pavement, only the outside traffic lane areas of each patterned crosswalk shall be tested for friction resistance in accordance with **ASTM E274** or **ASTME 1911**. Friction resistance shall, at a minimum, have a FN40R value of **30** (or equivalent).
- (4) The results of all friction tests shall be sent to the **Operations Engineer** at the local FDOT District Four Operations Center located at Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300, with a cover letter either certifying, that the crosswalks comply with the minimum friction criteria, or stating what remedial action will be taken to restore the friction.
- (5) Failure to achieve the minimum resistance shall require all lanes of the crosswalk to be friction tested to determine the extent of the deficiency. All deficient areas shall be removed to their full extent (lane-by-lane) and replaced with the same product installed initially. If the Department determines that more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the QPL, or replaced with conventional pavement.

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

- (6) When remedial action is required in accordance with the above requirements, the local agency shall complete all necessary repairs at its own expense within 90 days of the date when the deficiency was identified. No more than two full depth patterned pavement repairs shall be made to an area without first resurfacing the underlying pavement to 1" minimum depth.
- (7) The Department will not be responsible for replacing the treatment following any construction activities by the Department in the vicinity of the treatment, or any costs for testing.
- (8) Should the local agency fail to satisfactorily perform any required remedial work or testing in accordance with this agreement, the Department reserves the right to replace the patterned pavement with conventional pavement (matching the adjacent pavement) and bill the local agency for this cost.

***FM 5-592:** <https://www.fdot.gov/materials/administration/resources/library/publications/fstm/bynumber.shtm>

****ASTM E1911:** <https://www.astm.org/e1911-19.html>

SECTION: 86170000
PERMIT: 2021-L-491-00011
COUNTY: BROWARD
STATE RD: 811

EXHIBIT F

RESOLUTION

This Exhibit forms an integral part of the LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT between the Florida Department of Transportation and the AGENCY.

Please see attached

(To be provided by City)